UFS 922 si/sw

Twin HDTV satellite receiver
with hard disk

KATHREIN
Antennen · Electronic

Preface

Dear customer,

this Operating Manual is intended to help you make the fullest use of the extensive range of functions offered by your new receiver.

We have tried to make the operating instructions as easy as possible to understand, and to keep them as concise as possible. To help you understand particular specialist terms that cannot be translated, we have added a short glossary at the end of the manual.

In the contents on the next page you will see the main headings of the respective chapters of this operating manual. At the beginning of each chapter we have also provided a short list summarising the points that are covered in that chapter.

If you need to find a particular sub-section within a chapter, you can look it up in the comprehensive index at the end of this operating manual.

The power switch is an environmentally friendly feature. If you will not be using your receiver for an extended period, you should use the power switch to disconnect it from the power supply and save energy. For shorter breaks, you can use the remote control to switch the receiver to standby, which uses only a minimal amount of energy.

We want you a good reception and hope you will enjoy using your new HDTV receiver.

Your
KATHREIN team

Difference between PAL and HDTV

The difference between PAL and HDTV
"High definition television" is characterised by a significantly higher number of picture lines on the TV set. The usual European standard PAL achieves a resolution of 576 lines vertically and 720 lines horizontally. High-resolution TV sets have resolutions up to five times higher and thus provide more detail sharpness and plasticity than TV to the usual PAL standard.
A HDTV picture can contain up to five times as many picture points, i.e. approximately 2 million pixels, compared to a conventional PAL picture with only approximately 400,000 pixels.

PAL   720 x 576

720p   1280 x 720

1080i   1920 x 1080

Worldwide, there are currently two HDTV standards based on the two formats 1080i and 720p. The two standards differ in the number of picture lines and in the transmission procedure. For the human eye, the difference between the two HDTV standards is hardly perceptible, however; in comparison to the PAL system, moving pictures look much more dynamic. Transmission technology and reception equipment will be able to handle both standards in the future.
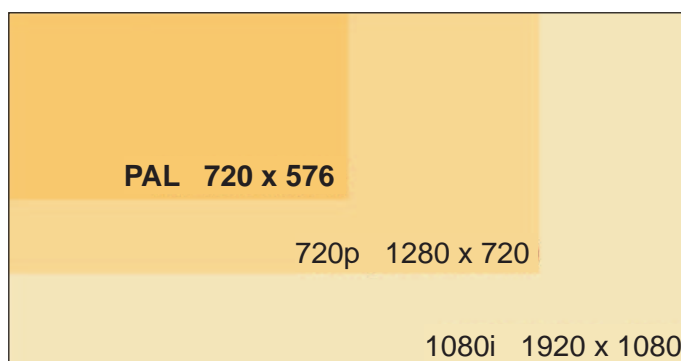
Disposal Instructions

Electronic equipment is not domestic waste - in accordance with directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 27th January 2003 concerning used electrical and electronic appliances, it must be disposed of properly.
At the end of its service life, take this unit for disposal to an appropriate official collection point.

Spent batteries are special waste!
Do not throw spent batteries into your domestic waste; take them to a collection point for used batteries!

Contents

GB

Safety Instructions – Important Information

This page contains important information about the operation, installation location and connection of the unit. Read these instructions carefully before starting to use the unit.

DANGER!

Mains cable

Make sure that the mains cable (power supply cable) is not damaged. Units with a damaged mains cable must be disconnected from the mains (disconnect mains connector) and repaired by a qualified engineer before setup. Only use the power pack supplied (if available)!

Risk of death due to electric shock!

Cleaning

Disconnect the mains connector before cleaning the unit. Only use a dry cloth for cleaning and only clean the outer surface. Never open the unit.

Touching the parts inside the unit carries a risk of death due to electric shock!

Playing children

Make sure that children do not push any objects into the ventilation slots.

Risk of death due to electric shock!

WARNING!

Earth connection

The antenna system must be earthed as specified or equipotentially bonded. EN 60728/11 and any national regulations must be complied with.

Danger due to surge voltages, lightning strikes!

Mains voltage

Only operate the unit with the specified mains voltage (marked on the rear of the-unit or on the external power pack)! The unit may only be connected to the mains and turned on once it has been connected to the antenna and to the TV set or the cable network and PC.

If the mains voltage is too high, there is a risk of fire!

Repairs

Ensure that any repairs to your unit are carried out by qualified personnel. Opening the unit and attempting to repair it yourself voids all warranty claims!
Improper work on the unit can jeopardise the electrical safety of the unit.

The manufacturer accepts no liability for accidents caused by the user opening the unit!

CAUTION!

Connections

Incorrect wiring of the connections can lead to malfunctions or defects on the unit!

Long periods of absence/storms/accessibility of the mains connector

Always turn off the unit at the mains switch if you will be absent for a long time or there is a storm. Disconnect it from the mains by unplugging the mains connector. This also applies to the other equipment connected to the unit. Isolation from the cable network is also recommended. Note any timer programs (receiver) and turn the unit on again promptly before the recording time. Ensure the mains connector is accessible at all times.

Installation location

All electronic equipment generates heat. However, the heating of this unit lies within the permissible range. Sensitive furniture surfaces and veneers may become discoloured by the effects of constant heat over time. The feet of the unit can also cause colour changes to treated furniture surfaces. If necessary, place the unit on a suitable stable and flat base!

Ventilation

The heat generated in this unit is adequately dissipated. However, the unit should never be installed in a cupboard or on shelves with inadequate ventilation. Never cover the cooling slots on the unit (e.g. with other equipment, magazines, tablecloths or curtains)!

Do not place any objects on top of the unit and maintain a clearance of at least 10 cm above the unit, so that the heat generated can be dissipated with no obstructions.
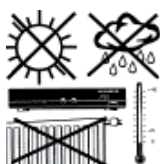
Moisture, sunlight, heat, naked flames

Protect the unit against moisture, dripping and splashed water (do not place any filled objects such as vases on top of the unit). Do not place the unit close to a heater or expose it to direct sunlight and do not operate it in damp locations. Only use the unit in a moderate climate, not in tropical conditions! Do not expose the unit to any naked flame, such as from a candle! This constitutes a fire hazard!

Channel assignment

The channels available on the satellites and transponders are subject to continual change. If changes do occur, the new channels have to be set on the receiver because the factory preset programming corresponds to the status on the date of manufacture. The information for these settings can be found on the Internet or in relevant magazines.

Updating the receiver software

Your receiver was equipped in the factory with the latest software version at that time. We are however constantly working on and adapting the software to the wishes of our customers and to developments in technology. Further information on this can be found in the chapters "Main Menu - Service Menu", "Service Menu", "Software Update".

Network function

To connect the PC/laptop and receiver to the network, you must have unrestricted rights (administrator rights) for your PC/laptop and on your network. For this refer to the chapter "Mainmenu", "Interfaces", "Network Settings".

Product return/original packaging

Please keep the original packaging in case you need to return the product at any time. Because of their design hard disks are fragile, and are only adequately protected if the receiver is in its original packaging. If the receiver is not shipped correctly the guarantee/warranty on the hard disk will be voided.

Software changes/use of applications

Any modifications to the receiver software, or the use of applications not provided by Kathrein, will invalidate the warranty! You will have to bear the costs yourself for shipping and repairing any receiver that requires attention due to modifications to the software and use of applications other than those provided by Kathrein!

Therefore exclusively use software and applications provided by Kathrein for your receiver. This is available by downloading from the satellite or from the Internet (www.kathrein.de).

Fan/ventilation slots on the unit

> **Make sure that the fan at the rear of the unit and the ventilation slots on the unit are not blocked or covered in any way. Otherwise the unit may overheat. Adjust the fan speed to the temperature conditions in the receiver.**
>
> **There is a risk of fire!**

Instructions on how to set the fan can be found in the chapter "Mainmenu", "Settings", "Basic Settings", "Fan Settings".

Important Information

Switching the receiver off

Before you switch off the receiver using the power switch, you must switch the remote control into standby mode by pressing the standby button (`on/off`). In standby mode, any changed or new data that is broadcast will be saved by the receiver. Once the receiver is in standby mode it can be fully switched off at any time at the power switch on the rear of the unit.

Do not switch the receiver off at the power switch directly from operating mode! This can lead to a loss of data and corruption of the software.

Information on Audio MPEG Inc. and S.I.SV.EL, S.P.A:

This unit makes use of legally protected technologies, which are protected by patents in the USA and also by other intellectual property rights in other countries.
KATHREIN-Werke KG has obtained licences from Audio MPEG Inc. and Societa' Italiana per lo sviluppo dell'elettronica, S.I.SV.EL, S.P.A to use these technologies. These licences carry certain restrictions, which apply also to you as the customer. Accordingly this unit may only be used by the end customer for private non-commercial purposes and for the licensed content. It may not be used for commercial purposes. The use of products or processes that are sold or used with this unit is not included in this statement. The use of reverse engineering is not permitted in respect of the licensed technologies, nor is disassembly.

Power consumption in standby mode < 1 W

The standby power consumption of < 1 W printed on the receiver packaging is only achieved when the receiver is in standby mode with the display switched off. You can make the setting in the following menu: "Mainmenu", "Settings", "User-defined settings", "Customize screen menu", "Front display in standby mode"

Miscellaneous

The information in this operating manual was correct at the time of going to print. However, we reserve the right to make changes at any time and without prior notice. If new software is released for your receiver, and this affects the information in the operating manual (e.g. changes to the menus and/or functions), if we believe it necessary we will provide a new operating manual for download at "www.kathrein.de".

Make a note of the receiver's basic settings (these are set during first installation), so you can restore them if necessary!

Included in the software for this receiver is software that is licensed under the GNU (General Public Licence). The source code of the program is obtainable under: http://www.kathrein.de/linux/receiver/ufs922

The term DiSEqCTM used in this operating manual is a registered trade mark of the European Telecommunication Satellite Organisation (EUTELSAT).

Receiver features

The UFS 922 HDTV twin receiver allows reception of digital satellite TV and radio channels. This receiver can receive both HDTV (High Definition Television) and also conventional TV (Standard Definition Television).

The multi-function receiver has two independent reception and signal processing circuits as well as an integral hard disk with a recording capacity of 500 GB.

Depending on the data content transmitted by the channel, the hard disk allows up to 300 hours of standard TV and radio programmes or up to 100 hours of HDTV to be recorded and replayed either simultaneously or with a time shift, without quality loss and as often as required.

The built-in Common Interface has capacity for two CA modules for pay TV channels. The receiver indicates the channel name on the 16-character alphanumeric display. In addition, the display has 16 icons that provide information on specific receiver conditions at a glance (e.g. Dolby Digital, HD, timer ...).

The HDMI interface allows the receiver to be connected to a flat-screen TV set. In addition a YpbPr connection, a video composite connection and two Scart connections are provided. Via the optical audio output, the receiver can output a Dolby Digital data stream AC 3 to a Dolby Digital system.

The integrated premium tvtv EPG is not only a clearly laid out electronic TV guide, but also enables programme schedules to be copied directly from the related EPG view to the timer. It also offers the facility of selectively sorting the programme information by categories and the generation and management of your own programme tips. The premium tvtv EPG also offers a comprehensive search function allowing searches by repeats, actors and key words amongst others.

The USB port at the front of the unit allows software updates to be loaded to the receiver.

The receiver's operating system is based on LINUX.

The receiver is available in silver or black housings.

Scope of supply

- UFS 922si or UFS 922sw
- Remote control RC 670
- HDMI cable
- Scart cable
- Coaxial loop-through cable for loop-through operation
- 2 batteries AAA 1.5 V
- Power supply cable
- Operating Manual
- Safety instructions (multi-lingual)

Receiver features/scope of supply/features

Features

- Reception of digital satellite TV channels and radio programmes using DVB-S and DVB-S2 transmission standards

- Video decoding of MPEG 2 and MPEG 4/H.264 signals

- Two independent HDTV satellite tuners with loop-through output

- Integral 500 GB hard disk for up to 300 hours standard TV or up to 100 hours HDTV recordings [1]

- Recording of radio programmes on the integral 500 GB hard disk

- Time shift TV

- Permanent time shift (continuous recording of the selected channel)

- 16-character alphanumeric display with status icons for indication of channel names and transmission information

- Premium tvtv EPG (Electronic Programme Guide) for up to 14 days detailed information on approx. 60 channels

- Extended EPG functions: Selective sorting by categories, comprehensive search function, generation and management of programme tips

- Recording archive with chapter menu and images

- Multimedia archive for video and MP3 playback

- Common Interface for two CA modules with dual decryption [2]

- HDMI output for optimum transmission of picture and sound to a flat-screen TV set

- Upscaler for upscaling the PAL signal to 576p, 720p, 1080i and automatic

- Cinch sockets for AV signal (composite CVBS, stereo audio)

- Two USB 2.0 ports on the rear of the unit for connecting external USB storage media

- One USB 2.0 port on the front of the unit for software update with a USB stick

- Ethernet port

- Menu-based first installation

- Pre-programmed channel list

- Display of transmitter logo in various screen displays

- Unlimited number of timer recordings can be programmed (one-off, daily, weekly, user-defined and series timer)

- 8 favourite channel lists for TV and 8 for radio

- YPbPr, TV and VCR Scart output

- Composite colour, RGB and Y/C signal output programmable via the Scart socket (TV)

- Optical audio output for Dolby Digital data stream (AC 3)

- Soundtrack selection for multilingual broadcasts

- Suitable for software updates via satellite, USB stick and PC (the operating software and the programme lists can be updated separately)

- On-screen display (OSD) in 10 languages (D, GB, F, I, E, CZ, NL, PL, TR, RUS)

- DiSEqC™1.0/-1.1/-1.2/-1.3 and SCR single cable system control signals

- Operating system based on LINUX

- Multifunction control on the front of the unit for ease of operation

- Power switch

- 4,000 channel memory

[1] Depends on the data rate of the programme broadcast

[2] CA modules and Smartcards are not included with this product

View of rear panel

1. On/Off switch (disconnection from the mains)

2. Mains power cable

3. Fan

4. Optical data stream output (SPDIF/Sony Philips Digital Interface Format) for Dolby Digital AC 3 audio

5. Data interface (for service only)

6. Audio outputs (L/R) - cinch sockets

7. Video output (composite colour)

8. 3 x Cinch connections for component outputs YUV labelled = Y/Pb/Pr

9. Scart socket for TV connection

10. Scart socket for VCR/AUX connection

11. HDMI connection

12. Network connection (Ethernet)

13. 2 x USB 2.0 ports (USB-A connectors)

14. LNB 2 loop-through output

15. LNB 1 loop-through output

16. LNB 2 input

17. LNB 1 input

Connection and setup

View of front panel (flap folded down)

1. Common Interface for two CA modules for pay TV cards *)
2. Record button
3. Stop button
4. USB 2.0 port

5. 16-character alphanumeric display
6. AUX button
7. TV/R button
8. Multifunction control

*) CA modules and Smartcards are not included with this product

Connecting the unit (Sat-IF connections)

Connect the Sat-IF inputs on the receiver to the satellite reception system. Use coaxial cable with an F standard connector.

If the F standard connectors are not yet fitted on the cables, strip the insulation from the cables as shown in the following illustration and carefully screw the F standard connectors on to the ends of the cables until they are securely attached.
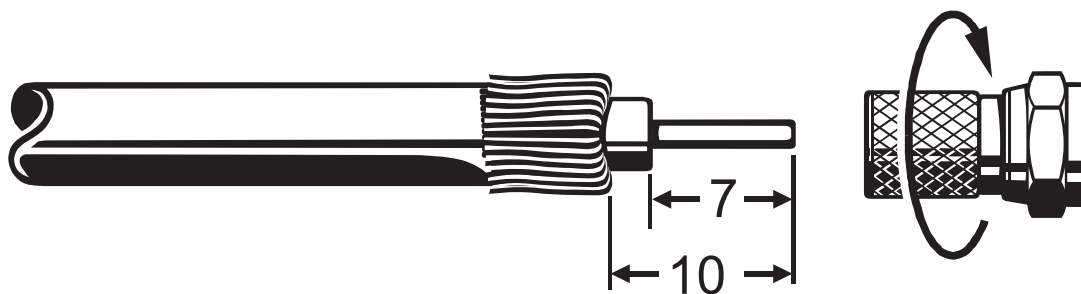
When fitting the connector, make sure that no wires from the braid are touching the inner conductor, otherwise a short circuit will occur.

The quality of the reception signal depends on a good connection at this point!

Information about antenna connection and loop-through mode

To enable you to utilise all the reception and recording features of your UFS 922 twin-PVR HDTV Sat receiver, such as

1. Recording one programme and simultaneously viewing any other programme or zapping through the channels, and

2. Recording two different programmes at the same time,

the two tuner inputs on the satellite receiver must each be supplied with a dedicated satellite signal from the antenna system/Sat outlet.
The receiver tuner inputs are factory preset in the installation menu to work with two separate Sat antenna connections.
If you only have one antenna connection available, we recommend you interconnect the output of tuner 1 and the input of tuner 2 using the loop-through cable supplied.

For this, in "First Installation" for tuner input 2 select "Loopthrough" (see "First Installation" chapter).

Press the [MENU] button to access the "Tuner Configuration" menu option, then select "Settings" and "First Installation". Go through step-by-step until you get to the tuner configuration. You can make the settings here, However,

Loop-through cable

one restriction on this is that with tuner 2 you can only receive the additional channels from the level currently set by tuner 1 (e.g. Horizontal High).

⚠️ **This will only work when receiving one satellite, not with multi-feed reception!**

⚠️ **If you want to operate your UFS 922 on a one cable system, please refer to the connection example for one cable systems (see "Technical appendix", "Examples of one cable systems").**

Connection and setup

Connection example

Conventional DiSEqC™ system

TV

Network PC/laptop

Hi-fi system

HDMI

ESD 32

ESU..

UFS 922

Connection sequence for single-cable matrices

Dolby Digital system

External hard disk

DVR (VCR) / DVD
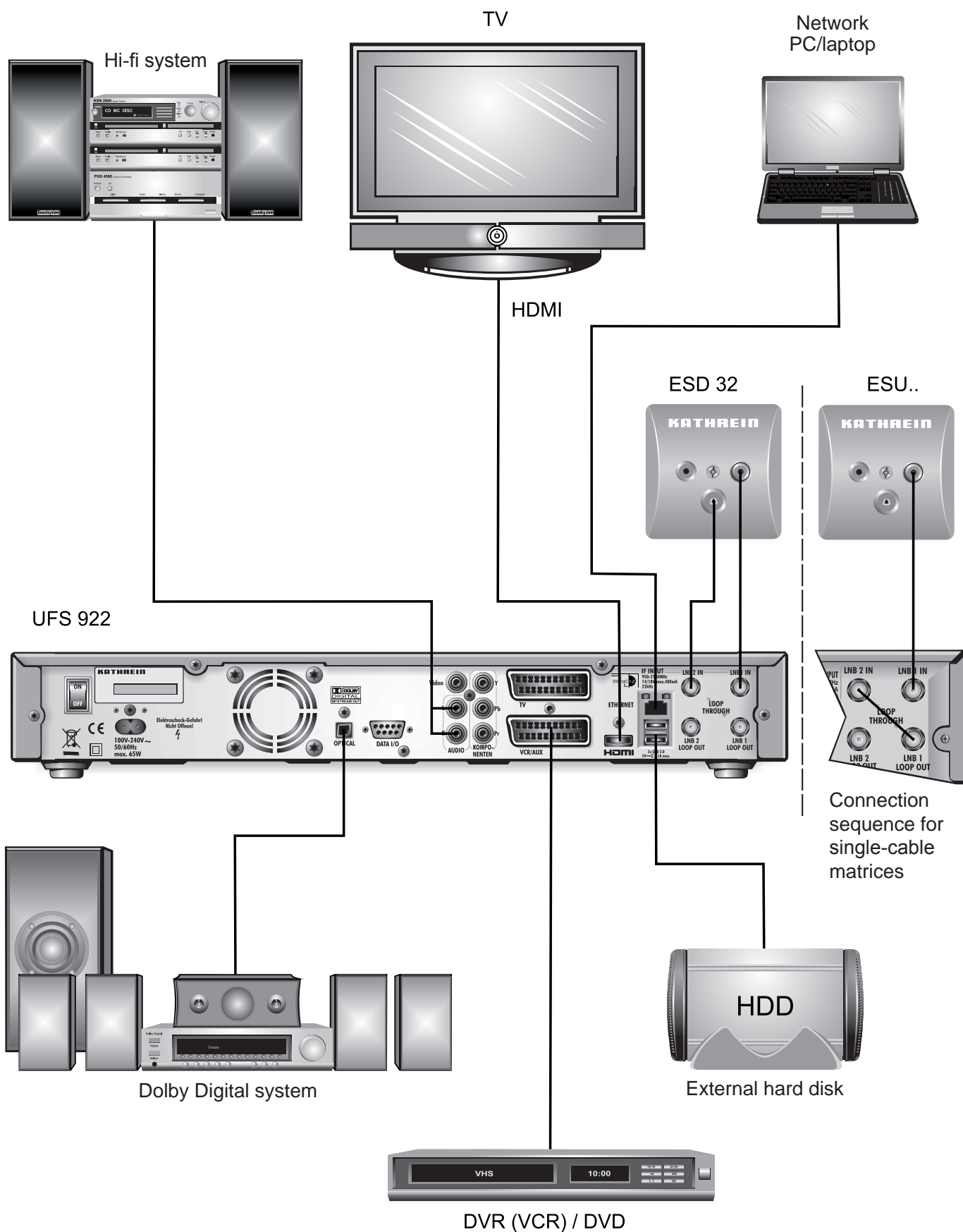
TV and VCR connection

Connect the satellite receiver (HDMI or alternatively TV Scart socket) and the TV set using an HDMI or Scart cable (see "Connection example"). If your TV is stereo, you can receive the sound in stereo via the HDMI or Scart connection. For system reasons, the same video signals are to be found at the TV Scart socket as at the video cinch output.

Connect the satellite receiver (VCR/AUX Scart socket) to the video recorder/DVR using a Scart cable. To play back a DVD, i.e. output the signal from the DVR through the receiver on the TV set, the TV set must also be connected to the receiver with a Scart cable. This is necessary as there is no upscaling of the video signal from the VCR Scart socket to the HDMI output.

> ⚠ **If you are recording using an external video recorder, remember not to operate the receiver during recording, otherwise all the on-screen displays will appear on your recording.**

Audio connection

If you want to play the sound on your hi-fi system, connect the audio cinch sockets to the input sockets on the hi-fi system, using an appropriate cable (see "Connection example").

Optical digital output

The fibre-optic output is intended for the connection of a Dolby Digital system (see "Connection example").

Inserting batteries into the remote control

Remove the cover on the rear of the remote control. Insert the two batteries supplied into the remote control. Ensure correct polarity of the batteries; the + and – markings as indicated inside the battery compartment. Slide the cover back on to the remote control until it locks in place.
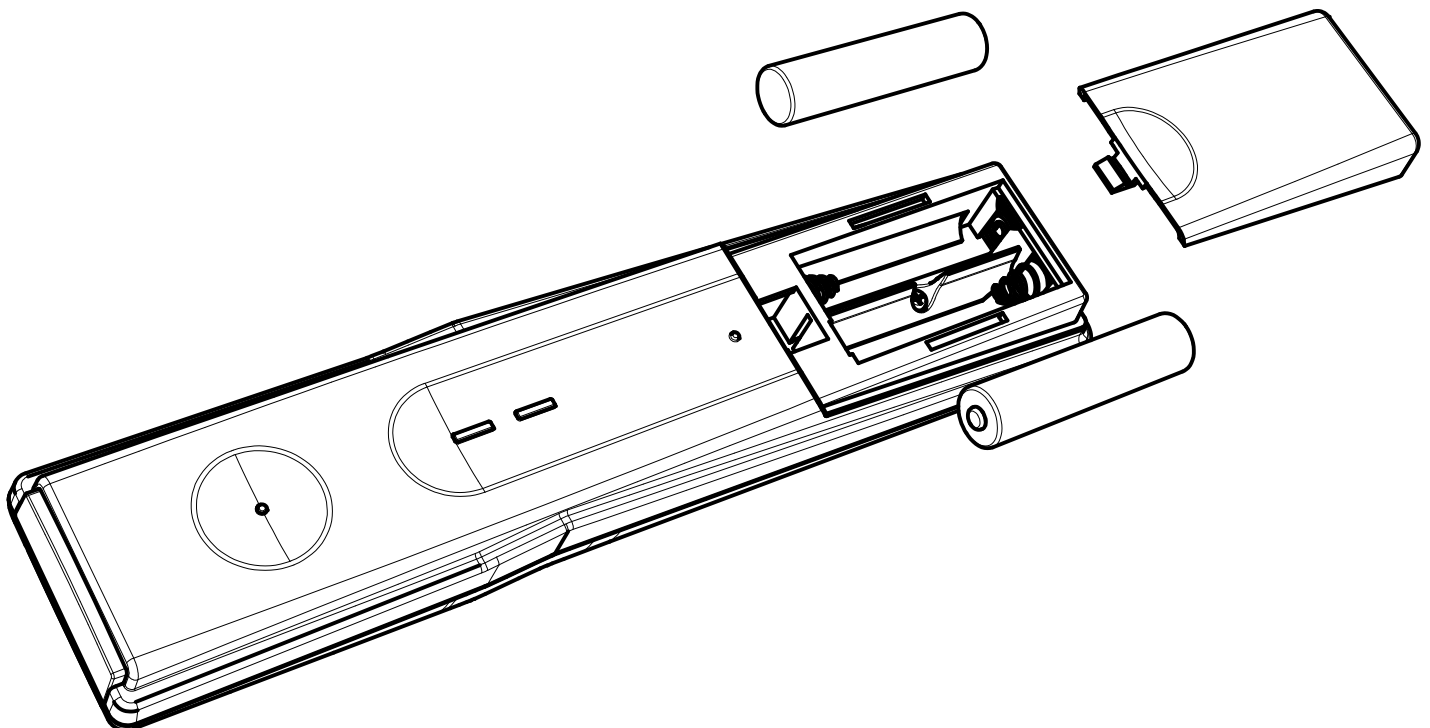
Connection and setup

First Installation

> ⚠️ **Before you start to use the UFS 922, read the chapters "Safety instructions - Important information", "Important information" and "Connection and setup" through to the "First Installation" section.**
>
> **Do not connect the unit to the mains until all installation work has been properly carried out.**
>
> **The guidance provided in the "First Installation" section assumes that the receiver has been properly connected as per the "Safety instructions - Important information", "Important information" and "Connection and setup" chapters through to the "First Installation" section.**

Required buttons on remote control for first installation:

0 ... **9**wxyz	Numerical input	PIP (green)	Proceed to next step in first installation
FAV (red)	Go back one step in the first installation	OK	Confirm the changed values/setting
◄►▲▼	Select/change individual menu parameters, navigation		
BACK	Cancel input, go back		

First switch your TV set on and select the AV channel slot you have used to connect the UFS 922 to your TV set. Start up the UFS 922 by switching on the power switch on the rear of the unit. The following display appears:

> ⚠️ **Always pay attention to the bar at the bottom of the on-screen display. Messages here provide information on what to do next.**

First Installation - Step 1 of 7
▸ **Language Setting**

🇩🇪 Deutsch	UFS 922 TWIN HD PVR
🇬🇧 ✓ English	Software Version : 1.02
🇫🇷 Francais	
🇮🇹 Italiano	
🇪🇸 Espanol	
🇨🇿 Cestina	
🇳🇱 Nederlands	
🇵🇱 Polski	
🇹🇷 Turkce	
🇷🇺 Russian	

Press **OK** ▲ ▼ to choose the language settings
BACK Cancel   Forward to the next step
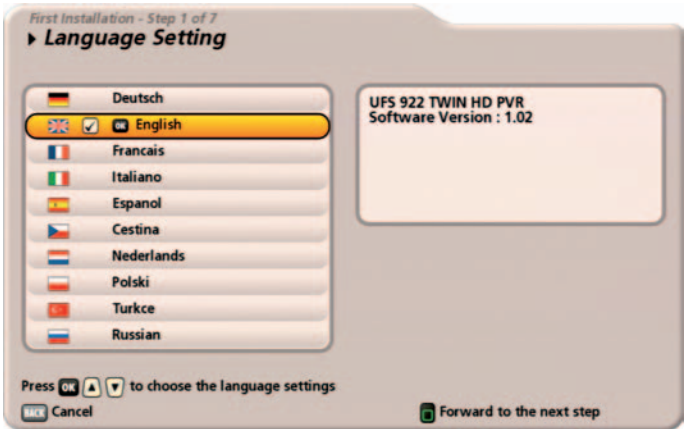
Use the ▲ ▼ buttons to select the desired menu language for your UFS 922 and confirm your selection using the OK button. The selected language is indicated with a tick. The following languages are available: German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish and Russian.

Press the PIP (green) button to move to the next menu.

The following display appears:
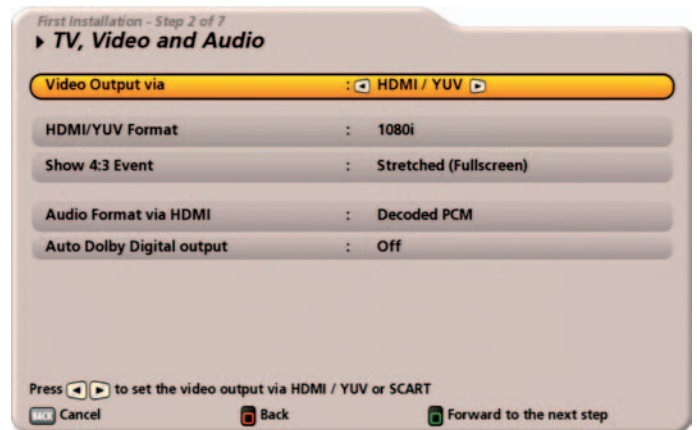
Use the ⬆⬅➡⬇ buttons here to select the basic settings for the video and audio output from the receiver to the TV set.

For this, refer to the operating manual for your TV set and take care to select only those settings that your TV set can process.

Video Output via

Select the connection on the receiver to which you have connected your television. Either

<table>
<tr><td align="center">HDMI/YUV</td><td align="center">or</td><td align="center">SCART</td></tr>
</table>

HDMI/YUV format

Here you can select the picture resolution that will be sent to your TV set. Either

- 1080i (resolution 1920 x 1080, half-screen images)
- 576p (resolution 720 x 576, full-screen images) or
- 720p (resolution 1280 x 720, full-screen images)

Show 4:3 Event

Here you can select the type of screen display mode for 4:3 broadcasts on a 16:9 TV set:

- Normal (Pillarbox)
- Stretched (Full Screen) or
- Zoomed in (Pan & Scan)

TV aspect ratio

Select the TV's picture format. Either

- 4:3 or
- 16:9

Picture format

Select the type of screen display, depending on your setting for the TV format:

- TV format "4:3": Pan & Scan or Letterbox
- TV format "16:9": Always 16:9 or automatic

Connection and setup

Audio format via HDMI

Here you can select the type of audio signal that is transmitted by the HDMI interface. Select the signal that your TV set can process:

- Decoded PCM or
- S/PDIF format

Auto Dolby Digital output

Here you can select whether the receiver should automatically select the Dolby Digital soundtrack (if this is transmitted).

⚠️ **Important instruction for picture output using "YUV":**

**The "YUV" output can be used only if "RGB" is not selected as the output signal for the TV Scart socket!
In this case, select "Y/C" or "CVBS" as the output signal for the TV Scart socket.**

Press the 🔲 (green) button to move to the next menu.

The following display appears:

⚠️ **Tuner configuration should be performed by a specialist engineer for the respective reception system.**

You should only perform the tuner configuration yourself if you are fully familiar with the particulars of your reception system.

TV Scart Output

Select the type of video signal at the TV Scart socket here. Select the signal that your TV set can process.

- CVBS – Colour Video Baseband Signal
- RGB – Red/Green/Blue signal or
- Y/C – S-Video signal (luminance/chrominance)

VCR Scart signal output

Select the type of video signal at the VCR Scart socket here. Select the signal that your external recorder can process.

- CVBS – Colour Video Baseband Signal or
- Y/C – S-Video signal (luminance/chrominance)

Auto Dolby Digital output

Here you can select whether the receiver should automatically output the Dolby Digital signal (if this is transmitted).

You can set up the tuner configuration for the following types of reception systems:

- DiSEqC™1.0
- DiSEqC™1.1
- Motorized antenna (DiSEqC™1.2/DiSEqC™1.3)
- Simple LNB or
- OneCable System

If your reception system is a one cable system, go to the "OneCable System" option and continue from there. For all other types of reception systems, continue from the next page.

Before you start configuring the tuner for your type of reception system you must first make both the "Tuner 2 connection type" and "Tuner 2 Signal Configuration" settings. Once you have made these settings, continue to follow the directions for your type of reception.

Tuner 2 Connection type

Select the type of connection for tuner 2 here. The currently selected setting is shown graphically in the connection example at the top left of the screen. Either:

Separated:

The second tuner input of the receiver, identified at the rear of the unit by "LNB2 in", receives its own signal input (i.e. there is a direct connection between the antenna socket and tuner input 2). See example illustration on the right.

Loopthrough:

The second tuner input of the receiver, identified at the rear of the unit by "LNB2 in", receives the signal currently looped through from the tuner 1 looped through output, identified by "Loopthrough". In this case, the second tuner can only receive the channel level currently being received by the first tuner. See example illustration on the right.
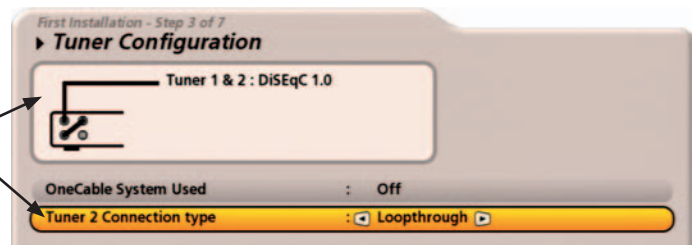
Tuner 2 Signal Configuration (only for "Separated" connection type)

Select the signal configuration for tuner 2 here. The currently selected setting is shown graphically in the connection example at the top left of the screen. Either:

Same with Tuner 1:

Both tuners are connected to the same signal source. See example illustration on the right.
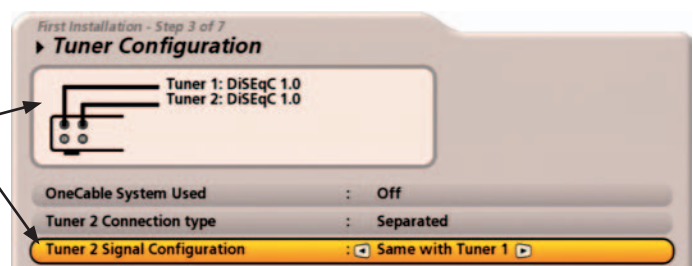
Different from Tuner 1:

The two tuners are connected to different signal sources (separate cables from the LNB). See example illustration on the right.

Connection and setup

The following configuration options are available for:

Tuner 2 Connection type "Loopthrough":

All settings are made on tuner 1. The second tuner is fed from the looped through output of the first tuner.

Available settings for tuner 1 are: "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"

Tuner 2 Connection type "Separated"/Tuner 2 Signal Configuration "Same with Tuner 1":

All settings are made on tuner 1. The settings for the second tuner are automatically taken from the first tuner.

Available settings for tuner 1 are: "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"

Tuner 2 Connection type "Separated"/Tuner 2 Signal Configuration "Different from Tuner 1":

All settings must be made separately for the two tuners.

Available settings for tuner 1 are: "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"
Available settings for tuner 2 are (irrespective of the setting for tuner 1): "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"

Use the ⬙ buttons to set the "Tuner 2 Connection type" and "Tuner 2 Signal Configuration" parameters to the appropriate setting for your reception system.

Continue as described in the first installation for the type of reception you have selected.

DiSEqC™1.0

The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the **OK** button. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.

Press the 📺 (green) button.

The following display appears:

Select Satellites - Tuner 1

Here, you can select up to four available satellites to be included in the signal on tuner 1. Use the ✛ buttons to select the satellite you want and confirm your selection with the **OK** button.

The selected satellites will be identified with a tick.

When you have completed all settings, press the 📺 (green) button.

The following display appears:

Satellite Configuration - Tuner 1

Make the settings for the first satellite for tuner 1 here.

LNB Type:

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the OK button to input the required low, high and limit frequencies as necessary.

                               The input is performed using the numeric keypad

DiSEqC™ Input:

- 1 of 4:   For the first satellite on the tuner (item A on the system)
- 2 of 4:   For the second satellite on the tuner (item B on the system)
- 3 of 4:   For the third satellite on the tuner (item C on the system)
- 4 of 4:   For the fourth satellite on the tuner (item D on the system)

DiSEqC™ Repeat:

The setting for how often the DiSEqC™ command must be repeated depends on the configuration of your reception system. Refer to the documentation for your reception system or seek assistance from a specialist engineer.

- Off   DiSEqC™ command is not repeated
- 1   DiSEqC™ command is repeated once
- 2   DiSEqC™ command is repeated twice or
- 3   DiSEqC™ command is repeated three times

<u>22 kHz signal:</u>

You only need to specify this data if your LNB type is "Simple". The 22 kHz signal is needed to switch LNBs in multi-feed reception and to switch between Low and High band.

- On
- Off

<u>Test-Transponder:</u>

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the [PIP] (green) button.

If you have selected more than one satellite (max. four) for tuner 1, the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite, followed by the third and fourth satellites as required, in the same way as described for the first satellite.

Once all settings for all the satellites that you selected have been completed, the receiver will automatically skip to the settings for the second tuner (assuming that for the second tuner you selected the connection type "Separated" and set the signal configuration to "Different from Tuner 1"). If this is the case, now make the settings for the second tuner in the same way as you did for the first tuner.

Once you have completed the settings for both tuners and the satellites assigned to them, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

DiSEqC™1.1

The individual items are selected using the [▲][▼] buttons. If you require to access submenus, they can be called up using the [OK] button. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

Press the [PIP] (green) button.
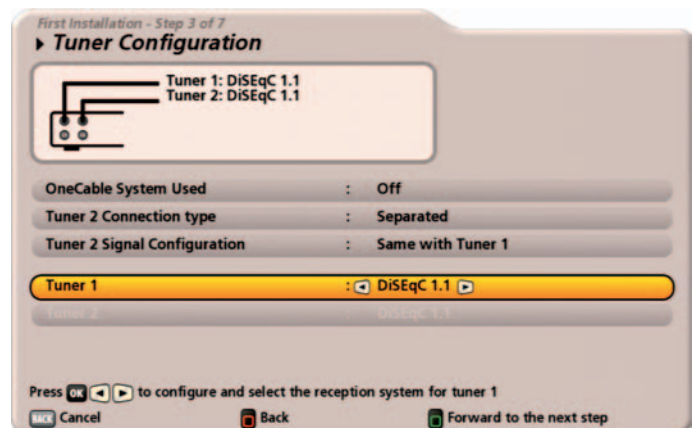
Connection and setup

The following display appears:

Select Satellites - Tuner 1

Here, you can select the available satellites (max. 64) included in the signal on tuner 1. Use the buttons to select the satellite you want and confirm your selection with the OK button.

The selected satellites will be identified with a tick.

When you have completed all settings, press the PIP (green) button.

The following display appears:

Satellite Configuration - Tuner 1

Make the settings for the first satellite for tuner 1 here.

LNB Type:

If your reception system does not have a Universal LNB, use the ◀ ▶ buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the [OK] button to input the required low, high and limit frequencies as necessary.

                                   The input is performed using the numeric keypad

Uncommitted Switch

Set the "Uncommitted Switches" here to match the configuration of your reception system. You can select "Off" or a value between "1" and "16" in single unit increments.

DiSEqC™ Repeat:

The setting for how often the DiSEqC™ command must be repeated depends on the configuration of your reception system. Refer to the documentation for your reception system or seek assistance from a specialist engineer.

- Off   DiSEqC™ command is not repeated
- 1   DiSEqC™ command is repeated once
- 2   DiSEqC™ command is repeated twice or
- 3   DiSEqC™ command is repeated three times

SatPos

Select the field "Position". Set the "Position" here to match the configuration of your reception system. You can choose between: "Off" or a value between "1" and "4" in single unit increments.

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the 🔳 (green) button.

If you have selected more than one satellite (max. 64) for tuner 1, the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite, followed by the other selected satellites, in the same way as described for the first satellite.

Once all settings for all the satellites that you selected have been completed, the receiver will automatically skip to the settings for the second tuner (assuming that for the second tuner you selected the connection type "Separated" and set the signal configuration to "Different from Tuner 1"). If this is the case, now make the settings for the second tuner in the same way as you did for the first tuner.

Once you have completed the settings for both tuners and the satellites assigned to them, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Connection and setup

Motorized Antenna (DiSEqC™1.2/DiSEqC™1.3)

The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.

Press the 📳 (green) button.

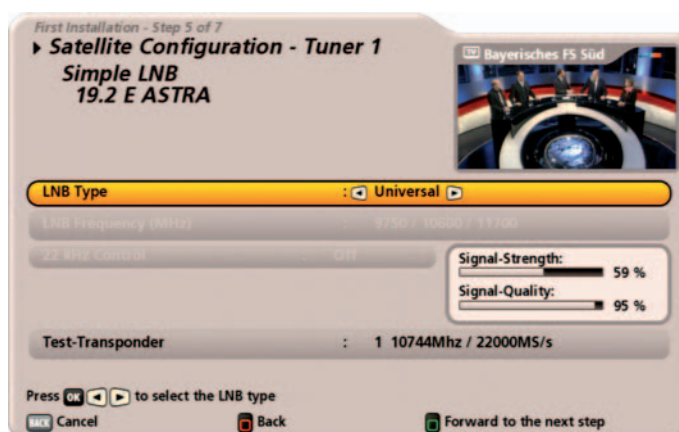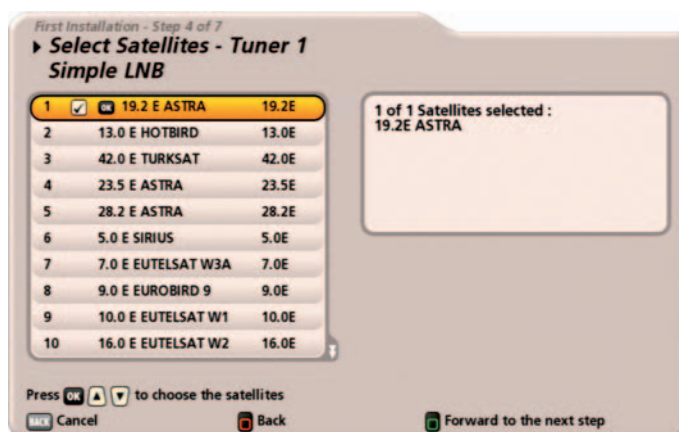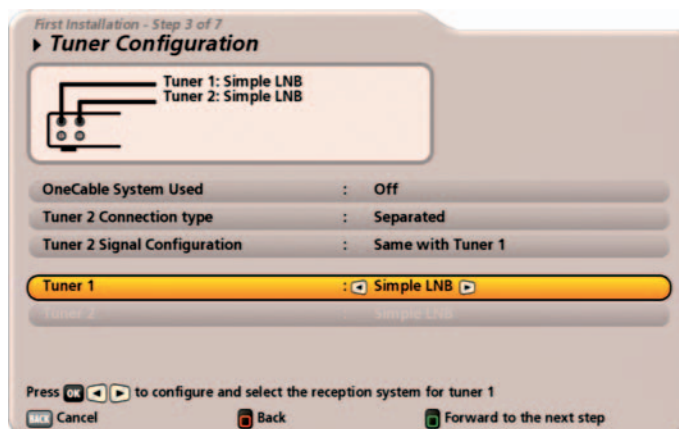The following display appears:

Select Satellites - Tuner 1

Here, you can select up to 64 satellites to be included in the signal on tuner 1. Use the buttons to select the satellite you want and confirm your selection with the OK button.

The selected satellites will be identified with a tick.

When you have completed all settings, press the 📳 (green) button.
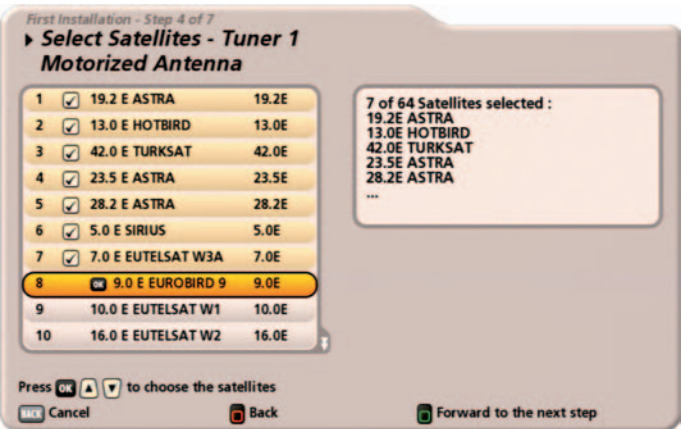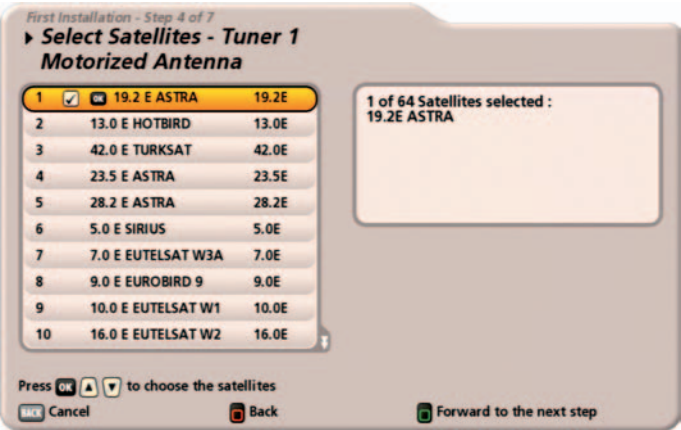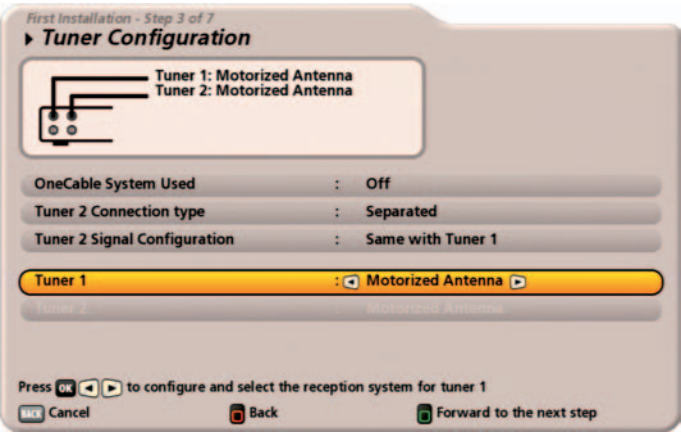
Motorized Antenna (DiSEqC™1.2)

The following display appears:

Motor Control

Select the control type "DiSEqC™1.2". Refer to the documentation for your motorized antenna for details.

Go to Null Position

Select the "Go to Null Position" field. Press the `OK` button to instruct the turntable to move to its null position.

Set Borders

Select the "Set Borders" field. In this menu you can set the limits for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).

Press the `OK` button. The following display appears:

The following buttons allow you to control the movement of the turntable:

◄◄	Start slow rotation to the West
◄	Rotate to the West step by step
■	Stop the current movement
►	Rotate to the East step by step
►►	Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field "Set current position for "****" border" and press the `OK` button to confirm.

If you subsequently want to delete the Set Borders, switch to the "Reset border positions" field and press the `OK` button to confirm deletion of the limits. You can then set new values for the limits. Once you have set all the limits, press the `BACK` button.

Press the 🔲 (green) button to move to the next menu.

The following display appears:

LNB Type:

If your reception system does not have a Universal LNB, use the ◀▶ buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal

- Simple or

- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the `OK` button to input the required low, high and limit frequencies as necessary.

    The input is performed using the numeric keypad

Stop on Signal:

Select the "Stop on Signal" field. Here, you can select whether the motorized antenna should stop its rotary movement immediately on reception of a signal from the desired satellite. You can choose between "On" and "Off".

Move Antenna:

Select the "Move motorized Antenna" field. Here you can control the movements of the motorized antenna, using the following buttons:

◄◄   Start slow rotation to the West

◄   Rotate to the West step by step

■   Stop the current movement

►   Rotate to the East step by step

►►   Start slow rotation to the East

Set the turntable so that both of the bars "Signal-Strength" and "Signal-Quality" on the right of the screen show the highest available percentage values.

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

Once you have achieved the best reception signal, press the ▣ (green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite.

If you have selected more than one satellite for tuner 1, the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite, followed by the other selected satellites, in the same way as described for the first satellite.

Once all settings for all the satellites that you selected have been completed, the receiver will automatically skip to the settings for the second tuner (assuming that for the second tuner you selected the connection type "Separated" and set the signal configuration to "Different from Tuner 1"). If this is the case, now make the settings for the second tuner in the same way as you did for the first tuner.

Once you have completed the settings for both tuners and the satellites assigned to them, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Motorized Antenna (DiSEqC™1.3)

Motor Control

Select the control type "DiSEqC™1.3". Refer to the documentation for your motorized antenna for details.

My Longitude

Select the "My Longitude" field and use the numeric keypad to input your current longitude.

My Latitude

Select the "My Latitude" field and use the numeric keypad to input your current latitude.

Go to Null Position

Select the "Go to Null Position" field. Press the OK button to instruct the turntable to move to its null position.
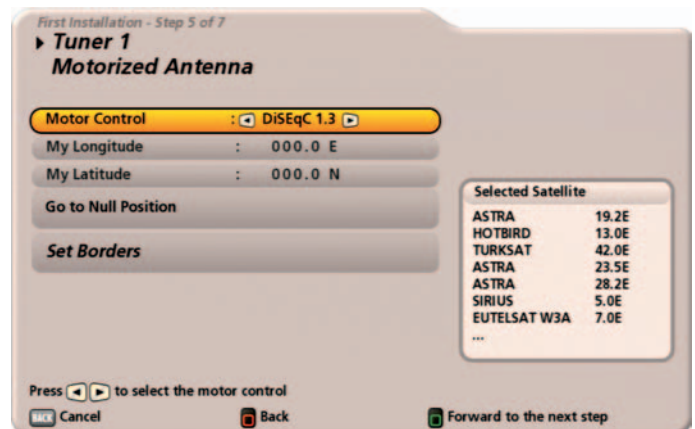
Connection and setup

Set Borders

Select the "Set Borders" field. In this menu you can set the limits for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).

Press the [OK] button. The following display appears:

The following buttons allow you to control the movement of the turntable:

[◄◄]	Start slow rotation to the West
[◄]	Rotate to the West step by step
[■]	Stop the current movement
[►]	Rotate to the East step by step
[►►]	Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field "Set current position for "****" border"

and press the [OK] button to confirm.

If you subsequently want to delete the Set Borders, switch to the "Reset border positions" field and press the [OK] button to confirm deletion of the limits. You can then set new values for the borders. Once you have set all the limits, press the

[BACK] button.

Press the [PIP] (green) button to move to the next menu.

The following display appears:

LNB Type:

If your reception system does not have a Universal LNB, use the ◀ ▶ buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal

- Simple or

- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the OK button to input the required low, high and limit frequencies as necessary.

    The input is performed using the numeric keypad

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking the signal strength bar and signal quality bar to see whether your settings are correct.

When you have completed all settings for this satellite, press the (green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite.

If you have selected more than one satellite for tuner 1, the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite, followed by the other selected satellites, in the same way as described for the first satellite.

Once all settings for all the satellites that you selected have been completed, the receiver will automatically skip to the settings for the second tuner (assuming that for the second tuner you selected the connection type "Separated" and set the signal configuration to "Different from Tuner 1"). If this is the case, now make the settings for the second tuner in the same way as you did for the first tuner.

Once you have completed the settings for both tuners and the satellites assigned to them, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Connection and setup

Simple LNB

The individual items are selected using the [▲] [▼] buttons. If you require to access submenus, they can be called up using the [OK] button. Changes to the current settings can be made using the [◄] [►] buttons or the numeric keypad.

Press the [PIP ■] (green) button.

The following display appears:

Select Satellite - Tuner 1

Use the [✛] buttons here to select the satellite that is

included in the signal on tuner 1, and press the [OK] button to confirm your selection.
The selected satellite will be identified with a tick.

When you have completed all settings, press the [PIP ■] (green) button.

The following display appears:

Satellite Configuration - Tuner 1

Here, you make the settings for the satellite for tuner 1.

LNB Type:

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal

- Simple or

- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the OK button to input the required low, high and limit frequencies as necessary.

                                The input is performed using the numeric keypad

22 kHz signal:

You only need to specify this data if your LNB type is "Simple". The 22 kHz signal is needed to switch LNBs when using multi-feed reception and to switch between Low and High band.

- On

- Off

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the ▇ (green) button.

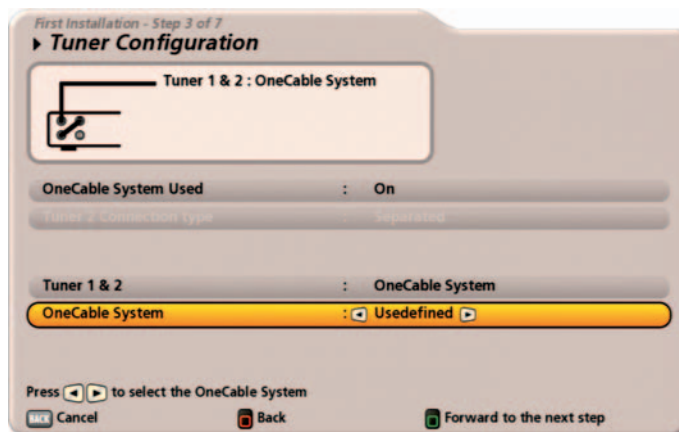The receiver will automatically skip to the settings for the second tuner (assuming that for the second tuner you selected the type of connection "Separated" and set the signal configuration to "Different from Tuner 1"). If this is the case, now make the settings for the second tuner in the same way as you did for the first tuner.

Once you have completed the settings for both tuners and the satellites assigned to them, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Connection and setup

OneCable System

Use the ◄ ► buttons to select "On" in the "OneCable System used" line.

Then use the ▲ ▼ buttons to switch to the "OneCable System" field.

The following display appears:
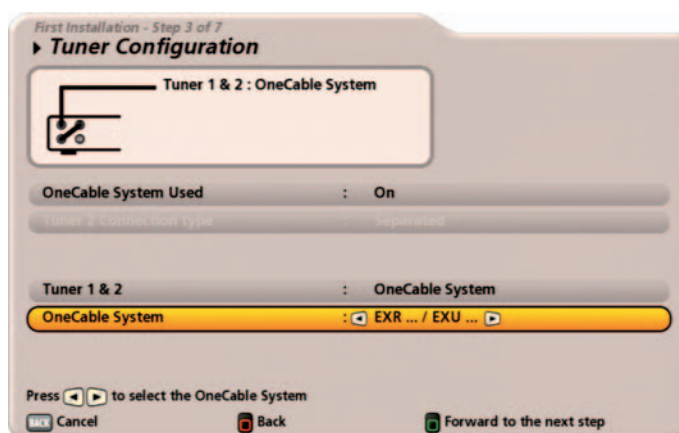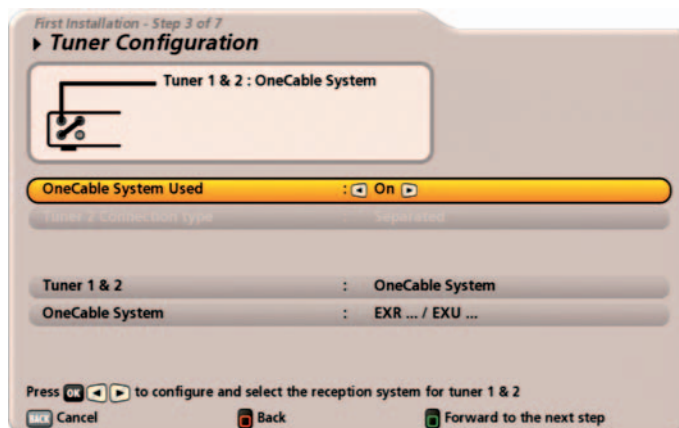
Use the ◄ ► buttons to select the one cable system used in your reception system:

- EXR ... / EXU ...   For all Kathrein one cable matrices
- UAS 481   For the Kathrein one cable LNB UAS 481
- User-defined   For all one cable systems not covered by either of the above specifications

Continue as described in the first installation for the type of one cable reception you selected.

OneCable System - EXR ... / EXU ...

The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.
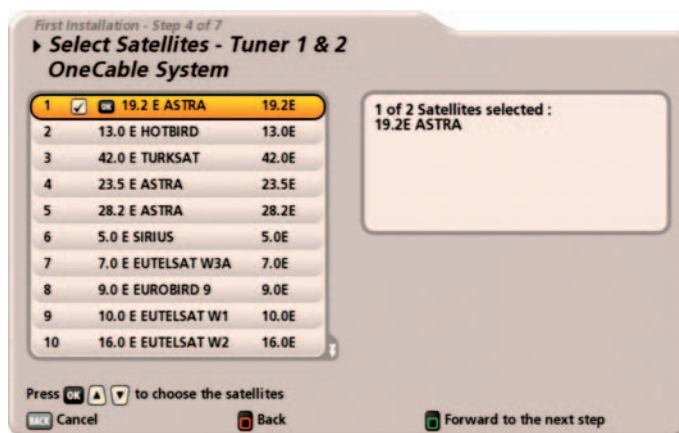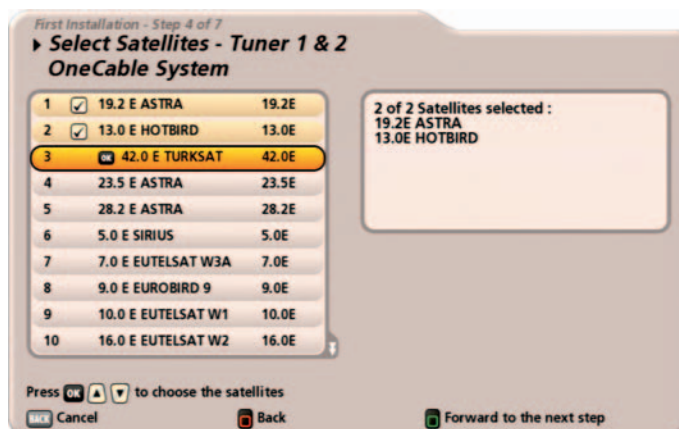
Press the ■ (green) button.

The following display appears:

Select Satellites - Tuner 1

Here you can select up to two satellites included in the signal on tuner 1. Use the ⬚ buttons to select the satellite you want and confirm your selection with the OK button. The selected satellites will be identified with a tick.
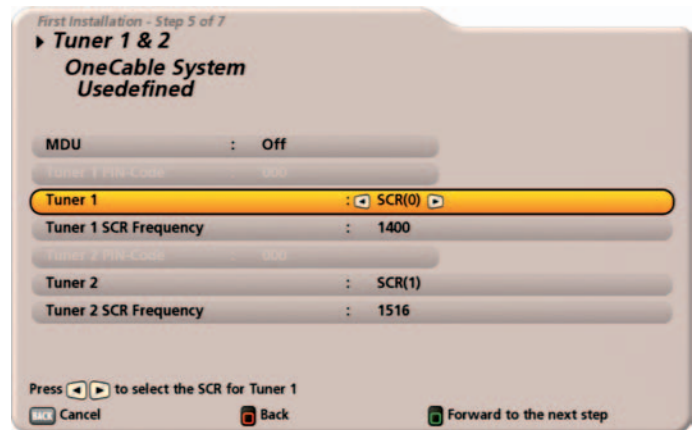
When you have completed all settings, press the ■ (green) button.

Connection and setup

The following display appears:

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.

▶ **Tuner 1 & 2**
   OneCable System
   EXR ... / EXU ...

MDU	: ◄ Off ►
Tuner 1 PIN-Code	000
Tuner 1	: SCR(0)
Tuner 1 SCR Frequency	: 1400
Tuner 2 PIN-Code	000
Tuner 2	: SCR(1)
Tuner 2 SCR Frequency	: 1516

Press ◄ ► to select the MDU
BACK Cancel   ● Back   ● Forward to the next step

⚠️ **Refer to the documentation supplied with your system for the settings for the SCRs, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; if so, the relevant frequencies will also be listed in the documentation for the one cable components.**

Please note also that multiple receivers cannot share the same frequencies/channels - the receivers would interfere with each other.

Do not assign the same frequencies/channels to tuner 1 and tuner 2.

Protect the channel with a PIN:

If your one cable system allows the transmission frequency to be protected by inputting a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is input.

Select the setting "On". You then have the facility of using the numeric keypad to input a PIN code (0-255) in the line underneath "Tuner 1 PIN code".

Transmission channel for tuner 1:

Select a free available transmission channel (SCR 0 - SCR 7).

Transmission frequency for tuner 1:

Select here one of the free available transmission frequencies.

See example on the right (EXR 551) for assignment of a transmission channel to a transmission frequency.

EXR 551
20510024

1 = SCR(0) 1400 MHz
2 = SCR(1) 1516 MHz
3 = SCR(2) 1632 MHz
4 = SCR(3) 1748 MHz

Make the settings for the second tuner in the same way as for the first tuner.

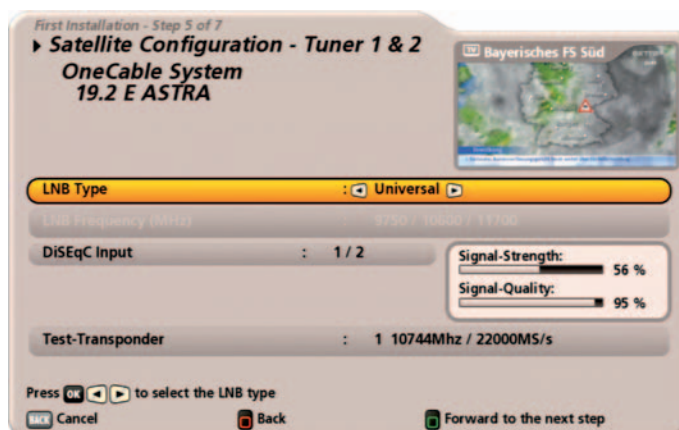When you have completed all settings, press the 🔲 (green) button.

The following display appears:

LNB type (settings):

If your reception system does not have a Universal LNB,

use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal

- Simple or

- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the OK button to input the required low, high and limit frequencies as necessary.

                                 The input is performed using the numeric keypad

DiSEqC™ Input:

Select the "DiSEqC™ Input" field. Here, you set the "Position" for the satellite displayed on the screen, to match the configuration of your reception system. You can choose between: "1/1", "1/2" and "2/2" depending on whether you selected one or two satellites under "Satellite selection".

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

If a connection to the one cable system cannot be established, check your settings (frequency and transmission channel) and if necessary call for expert help.

When you have completed all settings for this satellite, press the ▣ (green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite.

If you have selected more than one satellite for tuner 1, the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Connection and setup

OneCable System - UAS 481

The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.

Press the ▣ (green) button.

The following display appears:

Select Satellites - Tuner 1

Here, you can select the satellite included in the signal on tuner 1. Use the ✛ buttons to select the satellite you want and confirm your selection with the ▣ button.

When you have selected the satellite you want, press the ▣ (green) button.

The following display appears:

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.
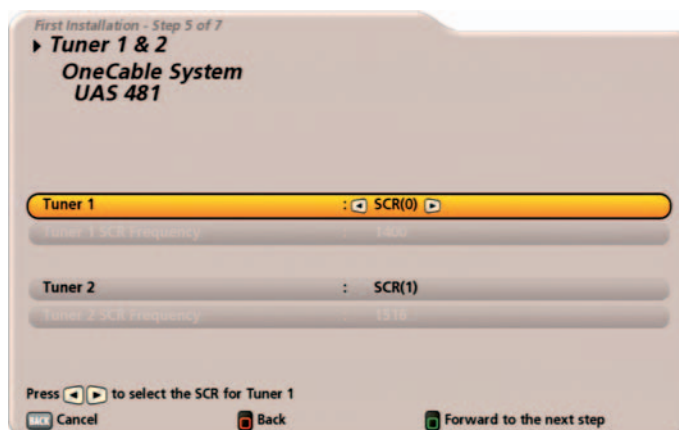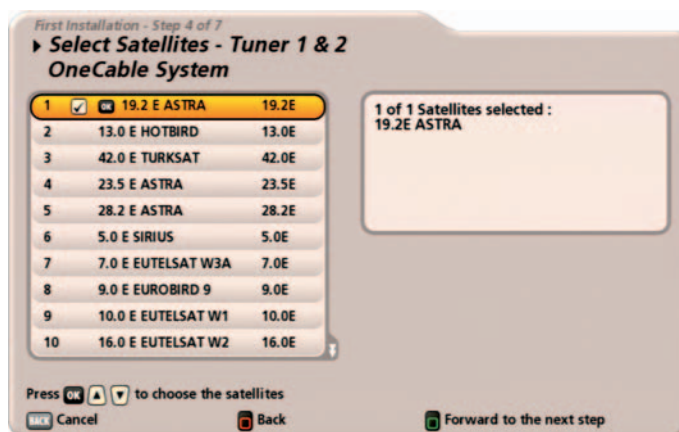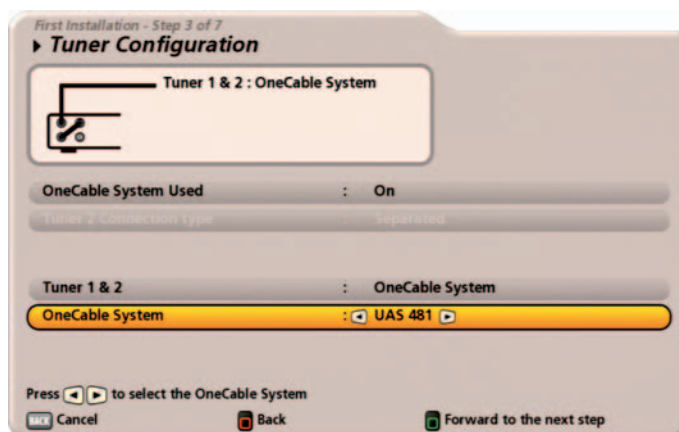
Refer to the documentation supplied with the UAS 481 for the settings for "Tuner 1" and "Tuner 2".

No frequency can be used by more than one receiver. The receivers would interfere with each other.

Do not assign the same frequencies/channels to tuner 1 and tuner 2.

Transmission channel for tuner 1:

Select a free available transmission channel (SCR 0 - SCR 3).

Transmission channel for tuner 2:

Select a free available transmission channel (SCR 0 - SCR 3).

When you have completed all settings for the satellite, press the ▣ (green) button. The following display appears:

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

If a connection to the one cable system cannot be established, check your settings (frequency and transmission channel) and if necessary call for expert help.

When you have completed all settings for the satellite, press the ▣ (green) button. The receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Connection and setup

OneCable System - user-defined

The individual items are selected using the ▲▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the numeric keypad.

Press the 🔲 (green) button.

The following display appears:

Select Satellites - Tuner 1

Here you can select up to two satellites included in the signal on tuner 1. Use the ✛ buttons to select the satellite you want and confirm your selection with the OK button. The selected satellites will be identified with a tick.

When you have completed all settings, press the 🔲 (green) button.

The following display appears:

The individual items are selected using the ▲▼ buttons. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.

First Installation - Step 5 of 7
▶ **Tuner 1 & 2**
OneCable System
Usedefined

MDU	: Off
Tuner 1	: ◄ SCR(0) ►
Tuner 1 SCR Frequency	: 1400
Tuner 2	: SCR(1)
Tuner 2 SCR Frequency	: 1516

Press ◄ ► to select the SCR for Tuner 1
Cancel   Back   Forward to the next step

⚠️ **Refer to the documentation supplied with your system for the settings for the SCRs, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; if so, the relevant frequencies will also be listed in the documentation for the one cable components.**

Please note also that multiple receivers cannot share the same frequencies/channels - the receivers would interfere with each other.

Do not assign the same frequencies/channels to tuner 1 and tuner 2.

Protect the channel with a PIN:

If your one cable system allows the transmission frequency to be protected by inputting a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is input.

Select the setting "On". You then have the facility of using the numeric keypad to input a PIN code (0-255) in the line underneath "Tuner 1 PIN code".

Transmission channel for tuner 1:

Select a free available transmission channel (SCR 0 - SCR 7).

Transmission frequency for tuner 1:

Here, you can select one of the free available transmission frequencies or use the numeric keypad to input the required frequency.

See example on the right (EXR 551) for assignment of a transmission channel to a transmission frequency.

EXR 551
20510024

1 = SCR(0) 1400 MHz
2 = SCR(1) 1516 MHz
3 = SCR(2) 1632 MHz
4 = SCR(3) 1748 MHz

Make the settings for the second tuner in the same way as for the first tuner.

When you have completed all settings, press the 🔲 (green) button.

Connection and setup

The following display appears:

LNB type (settings):

If your reception system does not have a Universal LNB,

use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal

- Simple or

- User-defined

LNB frequency (MHz):

You only need to specify this data if your LNB type is not "Universal LNB". The data required differ for the settings "Simple" and "User-defined". Refer to the documentation supplied for your LNB.

- Selection "Simple" LNB: Use the numeric keypad to enter the LNB frequency

- Selection "User-defined":   Press the OK button to input the required low, high and limit frequencies as necessary.

   The input is performed using the numeric keypad

DiSEqC™ Input:

Select the "DiSEqC™ Input" field. Here, you set the "Position" for the satellite displayed on the screen, to match the configuration of your reception system. You can choose between: "1/1", "1/2" and "2/2" depending on whether you selected one or two satellites under "Satellite selection".

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

If a connection to the one cable system cannot be established, check your settings (frequency and transmission channel) and if necessary call for expert help.

When you have completed all settings for this satellite, press the ▯ (green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite.

If you have selected more than one satellite for tuner 1, the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the "Channel search" chapter.

Channel Search

The individual items are selected using the ▲▼ buttons. Changes to the current settings can be made using the ◄► buttons.

If you do not want to perform a channel search, press the 🔲 (green) button and continue with the chapter "Date and Time".

If you want to perform a channel search, use the ◄► buttons to select "Yes".

The following display appears:

Satellite and Position

You can now use the ◄► buttons to select between the individual satellites you have set up, or choose the setting "All". If "All" is selected, all the individual satellites you have set up will be searched for new channels. Make sure your reception system is aligned to this/these selected satellite(s).

Channel Search Mode

Use the ◄► buttons to select the type of channels that are to be searched for. You have three options:

- "free & scrambled"   All channels are searched for
- "only free"   Only free-to-air channels are searched for
- "only scrambled"   Only encrypted channels are searched for

To view encrypted channels you need an appropriate CA (Conditional Access) module and a valid smart card together with a valid subscription to the relevant Pay TV provider.

Connection and setup

Network Search

Use the ◀ ▶ buttons (On/Off) to select whether a network search should be performed. If you set the network search to "Off", only the factory default transponders for the satellite(s) you previously selected will be searched for new as yet unsaved channels. If you set the network search to "On", the transponder network enables additional transponders that have not yet been stored to be located. They are then stored and searched for new channels in the same way as the existing transponders.

When you have completed all settings, press the [PIP] (green) button. The following displays appear (example):

During the search you will see the following display (example):

New channels found are identified by the suffix "NEW" (see screenshot example, right).

Note:
You can cancel the search at any time by pressing the BACK *button.*

After completion of the search, you will see the following display (example):

Press the OK button. The new channels founded are added at the end of the existing complete list.
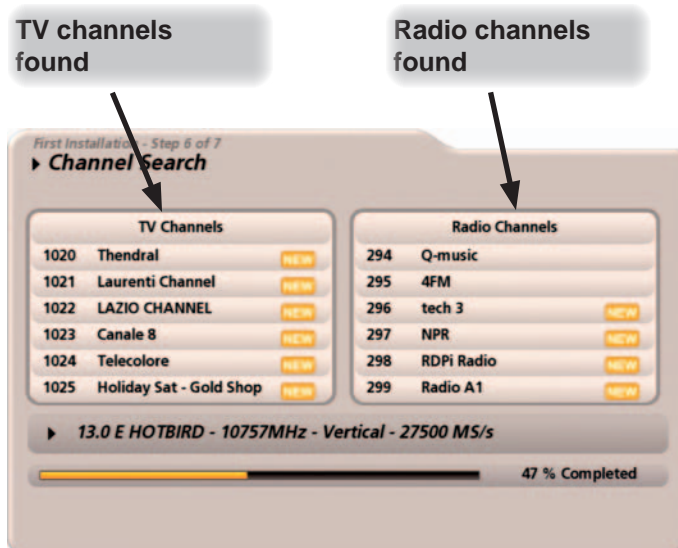
Date and Time

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons.

First Installation - Step 7 of 7
▶ Time Setup

Time mode	: ◄ Automatical ►
Set Local Time	: 01:00
Summer Time	: Automatical
Time setup channel	: 1 Das Erste
Setup Time now	

Wednesday
11.02.2009

12:30
Summer Time

Press ◄ ► to select the time mode

🟢 Finish First Installation
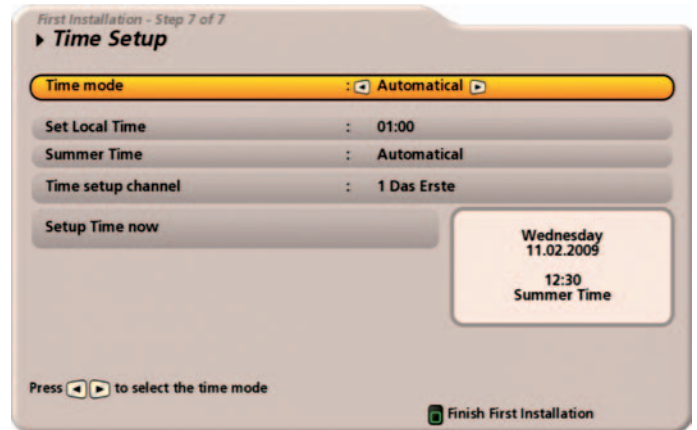
Time Setup

Here you can select whether the time information should be obtained by the receiver automatically from a specific channel that you select or whether the time information should be input manually. Either

- Automatic or
- Manual

Local time offset (UTC)

Here you can select the local time offset to UTC (formerly GMT) (e.g. for Germany: + 1 hour). You can set the offset in 30 minute steps. The maximum offset is 11 hours and 30 minutes (+ and -).

Time changeover (Summer Time)

Here you can select whether the receiver should automatically change over to and from summer and winter time. The "Manual" setting is only useful if you also selected "Manual" for the "Time setup" option, since otherwise the time information is obtained automatically by the receiver. Either

- Automatic or
- Manual

Time setup channel (operates only if the time setup is set to "Automatic")

Here you can select the channel from which the receiver should obtain the time information. Press the OK button to call up a channel list from which you can select the channel you want using the cursor (⬥) buttons. Confirm your selection with the OK button.

Setup Time now

Press the OK button.

Connection and setup

Depending on the desired time setup option (Automatic/Manual) the following display then appears:
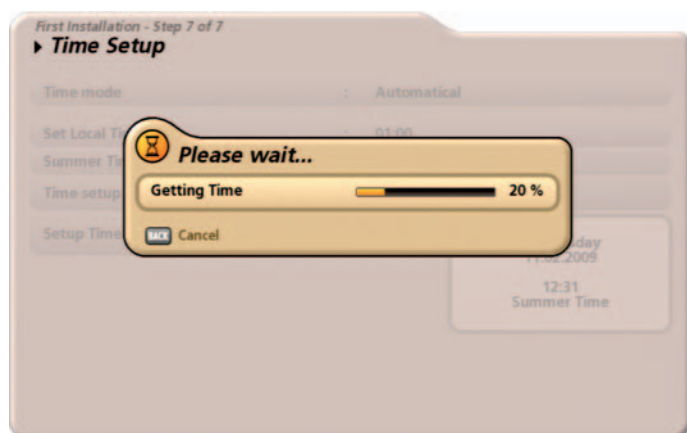
Automatic	**Manual**

You need not input any further data, the receiver will automatically update the date and time.

Use the numeric keypad or the ◄ ► buttons to input the correct date. Then use the ▲ ▼ buttons to switch to the "Time" field and use the numeric keypad or the ◄ ► buttons to input the correct time. Then use the OK button to confirm your input.

When you have completed all settings, press the (green) button, to complete the first installation.

In this chapter we provide you with a few basic tips and explanations about using the UFS 922. These are not specific to any one menu, but can be used as help and orientation in practically all menus.

Alphanumeric Inputs

For inputs such as names of favourites or search expressions, use the keyboard displayed on the screen (see example screenshot).

The letters assigned to the numeric keypad keys also apply to your remote control. They are used in a similar way to those on a mobile phone. The following buttons can be used for input or to select an action:

Button	Assigned character/action				
Press	1 x	2 x	3 x	4 x	5 x
1 .,:@	.	ß	?	!	1
2 abc	a	b	c	2	ä
3 def	d	e	f	3	
4 ghi	g	h	i	4	
5 jkl	j	k	l	5	
6 mno	m	n	o	6	ö
7 pqrs	p	q	r	s	7
8 tuv	t	u	v	8	ü
9 wxyz	w	x	y	z	9
0 ␣	1 x space 2 x 0				
◀	Last character is deleted				

General operating instructions

MENU	Switch between upper case and lower case letters
OK	Confirm the term input
BACK	Cancel input without saving
TEXT	Cancel input without saving

After you have input the desired term, press the OK button to enter the name/search expression or press the BACK or TEXT button to cancel the input.

Editing and selection options in the menus

> ⚠ **Always pay attention to the bar at the bottom of the on-screen display. Messages here provide information on what to do next.**

In many menus, all the editing and selection options for that menu are shown at the bottom of the display. Where a specific remote control button is required to execute them or call them up, this also will be shown (see example screenshot, right).

Explanation of symbols in receiver display

Various symbols are occasionally shown in the receiver display above the normal display (channel name). These are not displayed permanently, they only appear for specific functions, procedures or channel features. You can find their meaning in the table below.

DD	This symbol indicates that a Dolby Digital soundtrack is available on the currently selected channel (call up by pressing the ▣ᴼᴾᵀ (yellow) button and select by pressing the ▲ ▼ buttons)
⊘	This symbol appears when the ⊠ button (mute) is pressed, and vanishes when it is pressed again (sound on)
⊙⊣	This symbol indicates that an encrypted channel has been selected
REC	This symbol appears during a recording programmed on the receiver
USB	This symbol indicates that the USB sockets on the unit are in use
HD	This symbol indicates that the transmission currently selected is being broadcast in HDTV quality
HDD	This symbol indicates that the USB device connected has been successfully initialised
▷	This symbol indicates that a recording is being played back or that the receiver is in timeshift operation
▷▷	This symbol indicates that fast forwarding is taking place during playback of a recording or during timeshift operation
◁◁	This symbol indicates that rewinding is taking place during playback of a recording or during timeshift operation
‖	This symbol indicates that the ▮▮ button has been pressed during playback of a recording or during timeshift operation
⊕	This symbol indicates that that the timer list of the EPG contains scheduled recordings

Basic operation in TV or Radio mode (live operation)

Remote control for live operation (TV/Radio)

Call up the Help function

Numeric keypad

Select main menu

Volume "-" (softer)

Mute

FAV = Call up favourites list

PIP = Not currently supported

Call up **tvtv** EPG
(Electronic Programme Guide)

Select last channel called up,
exit displays/menus step by step

◄◄ = Fast Rewind

► = Start Playback
Call up recording archive

►► = Fast Forward

Operation (on)/Standby (off)

Select Teletext

Volume "+" (louder)

Channel selection

Call up Channel Information (Info
Banner and Detail Information)

OPT = Call up Options Menu

TV/R = Switch between
TV/radio mode

Call up recording archive

= Navigation

OK = Call up Channel List,
Confirmation/Call up Selection

Call up Media Centre
(MP3, JPEG)

❙❙ = Start Timeshift (freeze-frame)/
Pause

● = Start Recording (OTR)

■ = Stop Playback/Timeshift/Record

Switching between TV and Radio operation

To switch between TV and radio mode, press the ▣ (blue) button.

Adjusting the volume

The volume is adjusted using the [VOL +] [VOL -] buttons.

Channel selection

Direct channel selection

The ▣ button allows the channel to be selected from the ordered version of the currently selected channel list/favourites list. If the channel slot in the channel list is known, the desired channel can also be called up directly by inputting the channel slot, using the numeric keypad on the remote control (example: ASTRA HD+ is at channel slot 10 in the currently selected channel list - to call it up, successively press the [1] [0] buttons on the remote control).

Channel selection from the channel list

Press the [OK] button to open the channel list. The following display appears:

Currently selected channel list

Call up alphabetic sorting
(▣ yellow button)

Currently selected channel

Live picture from selected channel

Call up the favourites lists
(▣ red button)

Channel list

Call up the complete list/ satellites list
(▣ green button)

Editing the TV list (see "Editing the channel list" chapter)

Signal strength and quality

Channel data:
- Transmitting satellite
- Transponder frequency
- Polarization
- Symbol rate

Call up the search function
([TEXT] button) **can be called up from any channel list**

```
TV Channel
●  ▣ Complete List  ▣  ●
   11  ASTRA HD+
   12  Bayerisches FS Süd
   13  WDR Köln
   14  NDR FS NDS
   15  MDR Thüringen
   16  hr-fernsehen
   17  SR Fernsehen
   18  SWR Fernsehen BW
   19  rbb Berlin
   20  DAS VIERTE
   21  DSF
   22  BR-alpha*
■ Favouriteslist  ■ Select Satellite  ■ Alphabetically  ■ TV / Radio  TEXT Search
BACK OK Exit            ● Edit TV-Channellist
```

```
TV ASTRA HD+
Signal-Strength:        56 %
Signal-Quality:         95 %
ASTRA 19.2
11914 MHz    DVB-S2
Horizontal
27500 MS/s
```

Information on selecting favourites lists:

You can also call up the favourites lists directly from TV screen, using the ▣ (red) button. Then use the cursor buttons (⊹)

to select the desired favourites list and confirm your selection using the [OK] button. The receiver automatically selects the first channel saved in the favourites list and returns to the TV screen. You can now select the sequence of channels saved

in the selected favourites list, using the ▣ buttons.

Basic operation in TV or Radio mode (live operation)

Now use the relevant coloured button to select the category from which you want to open a channel list:

FAV (red) button: Call up the "Favourites lists" category

Contains the following channel lists:
- Favourites lists 1-8
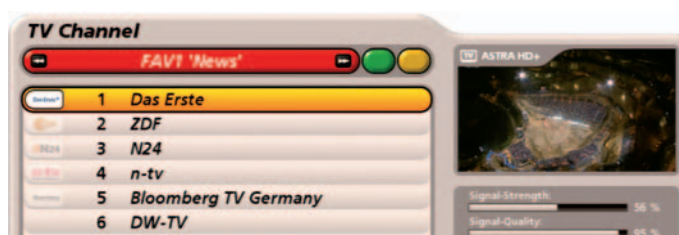
PIP (green) button: Call up the "Complete list" category

Contains the following channel lists:
- Complete list
- Channel lists ordered by satellite
- Channels supported by Premium **tvtv** EPG

OPT (yellow) button: Call up the alphabetically ordered lists

Contains the following channel lists:
- A-Z
- Z-A
- 0-9
- Ordered by individual letters
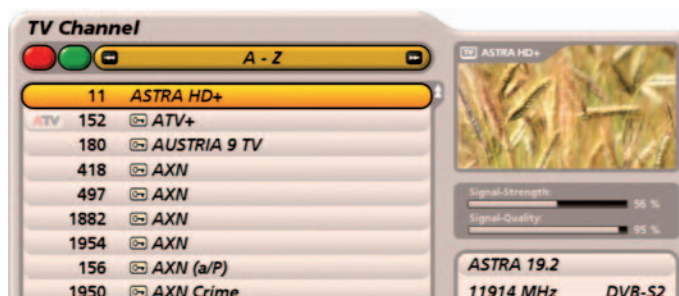
Channel list selection:

Use the ◄◄ ►► buttons to scroll through the currently available channel lists. If you want to see an overview of the currently available channel lists, press the coloured button for the selected category again; you will then obtain the following display (for example the favourites lists):

The desired channel list is selected using the cursor buttons (⊕) and called up using the **OK** button.

Select the channel:

After selecting the desired channel list, the desired channel is selected using the cursor buttons (⊕) and called up using the **OK** button. To exit the channel list and return to the TV picture, press the **OK** button again, or press the **BACK** button.
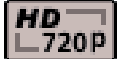
Channel Information

Channel information is shown for a few seconds each time the channel is changed (this can be changed under "Settings",

"User-Defined Settings", "Customise Screen Menu") or displayed continuously by pressing the [i] button.

Broadcaster logo

Channel slot in the selected channel list/ favourites list

Selected Favourites List

Channel name

Selected soundtrack

Subtitles available

Start time for the current programme (top) and for the next programme (bottom)

Current programme (top) and next programme (bottom)

Videotext/ Teletext available

Current time
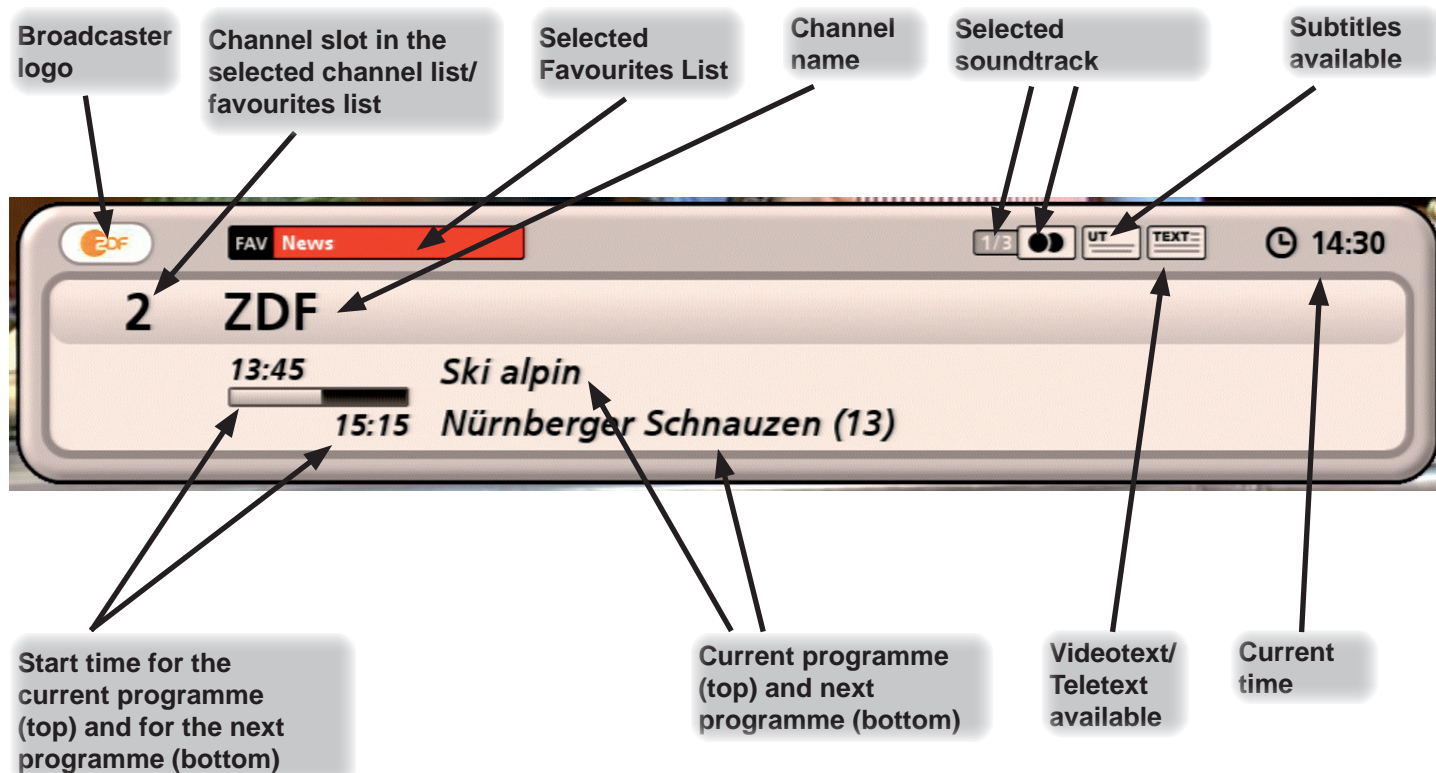
The following icons (symbols) may appear in the channel information:

Icon	Description	Icon	Description
HD 720P	Broadcast transmitted in HDTV, standard "720p"	○●	Audio selection is: Mono right
HD 1080i	Broadcast transmitted in HDTV, standard "1080i"	●●	Audio selection is: Stereo
OPT	Portal channel (channel options available)	UT	Subtitles are available
DIGITAL	Dolby Digital soundtrack selected	TEXT	Teletext is available
●○	Audio selection is: Mono left		

Basic operation in TV or Radio mode (live operation)

Calling up the channel options

If the channel OSD contains the following icon ⟦OPT⟧, this is a portal channel. Press the ⟦OPT⟧ (yellow) button, use the ▲▼ buttons to select "Channel Options" and press the ⟦OK⟧ button to confirm your selection. The following display then appears (example):

Use the ▲▼ buttons to select your desired channel option, and press the ⟦OK⟧ button to confirm your selection. The following display appears:
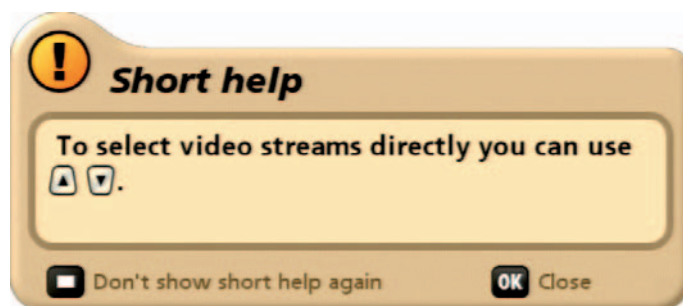
Press the ⟦OK⟧ button if you want to be reminded of this function next time, or the ⟦■⟧ button, if you don't want to see this message again.

After selecting a channel option using the ▲▼ buttons, skip through the other channel options in your selected portal channel.

Select Audio Track

If the channel banner displays 1/3 in front of the symbol for the selected soundtrack, this tells you that you have currently selected the first of the three available soundtracks. Press the ⬛ (yellow) button, use the [▲][▼] buttons to select "Select Audio Track" and press the [OK] button to confirm your selection. The following display then appears (example):
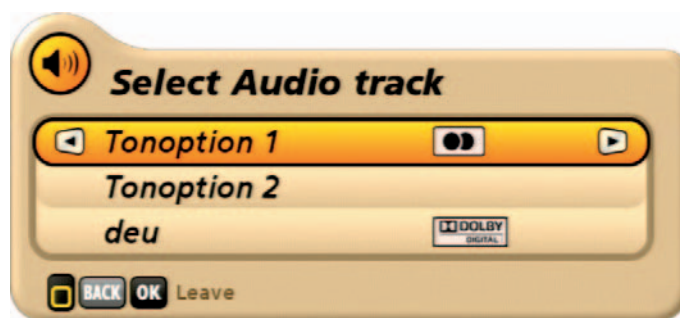
Use the ✛ cursor buttons to select your desired soundtrack option, and press the [OK] button to confirm your selection.

Subtitle selection

If the channel banner includes the following symbol for subtitles [UT], you can call up the "Select Audio track" function as follows: Press the ⬛ (yellow) button, use the [▲][▼] buttons to select "Select Audio track" and press the [OK] button to confirm your selection. The following display then appears (example):
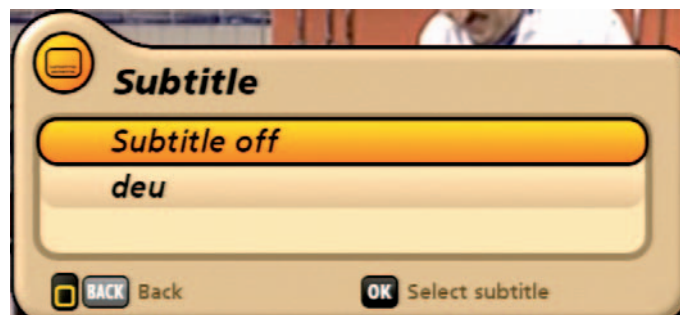
Use the [▲][▼] buttons to select the desired subtitles and confirm by pressing the [OK] button. The receiver will automatically return to the TV picture.

Basic operation in TV or Radio mode (live operation)

Teletext

This symbol [TEXT] in the channel information shows you whether Teletext is available for the selected channel.

When you press the [TEXT] button, the receiver processes the Teletext service data for your TV set to display, even when the signal is encrypted.

During the search, the page which is being searched for is displayed in the top left-hand corner with the time and date displayed at the top right. When the search is finished, the Teletext being broadcast by the relevant encrypted provider appears:

You have several options for opening the desired pages:

- Input with numeric keypad.

- Scroll backwards and forwards using the [▲][▼] buttons

- Scroll up and down in the sub-pages (e.g. 1/2 and 2/2) using the [◀][▶] buttons

- Selection using the options indicated by the coloured buttons [FAV] (red), [PIP] (green), [OPT] (yellow) and [TV/R] (blue) listed across the bottom of the screen

Press [BACK] or [TEXT] to exit Teletext.

Automatic timeshift

The UFS 922 provides a special function here. As soon as you switch to a channel, the receiver automatically starts recording the programme you are viewing to the hard disk in the background. When you change channel again, this stored data is deleted and background recording begins again.

This continuous background recording by the receiver offers you the following options:

- Rewind back to the time when you switched to this channel, and also fast forward up to the live signal ([◀◀][▶▶] buttons)

- Pause function ([❚❚] button), the picture is frozen

- Going forward and back in 30-second steps ([◀][▶] buttons)

If, after viewing a programme for a time, you decide you want to record it, you can do so as from the point you switched to that channel (see "OTR").

Precondition: *In the "Settings", "User-Defined Settings", "PVR Settings" menu the "Automatic timeshift" option must be set to "On" and the "Timeshift Buffer Size" entry must allow sufficient hard disk capacity for the timeshift recording.*

Refer to the "Mainmenu", "Settings", "User-Defined Settings", "PVR Settings" chapters for more information.

One-Touch Recording (OTR)

To start recording directly to the hard disk, press the

⬛ (red dot) button. The following display appears (example):

Use the ▲▼ buttons to select the lines to be changed; make the changes using the ◄► buttons.

Recording:

You have the following selection options:

- "From start": Recording is performed from the time since when the current channel has been watched without interruption (option available only if automatic timeshift is activated)
- "From now": Recording is performed from the present time
- "Later" Recording begins at the start time entered in the "Start" line

Start:

You only need to enter the start time for a recording if you have selected the recording type "Later".

End:

The end of the recording is determined automatically by the receiver, based on the available EPG data. If you want you can however change this manually.

Duration:

The duration of a recording is determined automatically by the receiver, based on the start and finish times. You can however correct the duration manually. In this case the receiver automatically adjusts the end time to correspond to the new recording duration. The start time of the recording remains unchanged.

Decrypt:

Here you can select whether the programme should be recorded unencrypted (select "Yes") or encrypted (select "No") on the hard disk.
Selecting "On" means that, depending on the setting in the "System parameters" "Common Interface" "Multiple decoding" menu, you may not be able to view any other encrypted channels that use the same CA module for decoding (see Chapters "System parameters" "Common Interface" "Multiple decoding").

Press the OK button to start the recording - you can cancel it by pressing the BACK or the ⬛ (red dot) button. To cancel the recording after it has started, you must press the ⬛ button, use the ▲▼ buttons to select the recording to be cancelled and press the OK button to confirm the action.

Premium *tvtv* EPG

General information about Premium *tvtv* EPG

What Premium *tvtv* EPG?

Premium *tvtv* EPG (referred to below just as EPG) represents the latest generation editorially prepared programme guide. It provides all the EPG information for around 100 TV channels free of charge, without you having to change channel, and also offers schedule information up to two weeks ahead.

Which channels are supported by EPG?

You can see in the channel list which channels are supported by the EPG (see "Basic operation in TV or Radio mode (live operation) chapter", "Channel selection from the channel list". On the one hand the channels supported are indicated by the broadcaster logos, on the other hand you have the facility of displaying a *tvtv* channel list (this is only operational only once an EPG update has been performed).

What restrictions are there with EPG?

Because of the large amount of data being transmitted, the receiver cannot store all the data for the channels supported by EPG. Therefore the receiver configuration is factory-set to accept *tvtv* data for only a limited number of channels. Refer to "Editing channel lists", "Editing channels (channel lists)", "*tvtv* (on/off)" for details of how to edit this pre-configured list. The more channels are added to this list, the less *tvtv* data is available for them, due to system restrictions.

Where does the EPG data come from?

The EPG is broadcast over the ASTRA satellite at the frequency of 12,603.75 MHz, with a symbol rate of 22 MSymb/s and horizontal polarization (18 V). If you have accidentally deleted the transponder for this frequency, you will need to start a new satellite and transponder search for the ASTRA satellite (see "Channel Search").

Is there any reason external to the receiver that might mean EPG does not work?

With non-Kathrein reception systems it may happen that the EPG data cannot be transmitted, because the necessary transponder (12,603.75 MHz, symbol rate 22 MSymb/s, horizontal) is not transmitted by that system.

What about EPG data for broadcasters that are not broadcast using ASTRA?

For broadcasters that broadcast using the "HOTBIRD 13° East" satellite you must perform an additional channel search using that satellite.

> ⚠️ **You will only see information on the current or subsequent programmes in the EPG if this data is supplied/transmitted by *tvtv* or by the channel provider. If no EPG data is available, the receiver shows the message "No data available" instead of showing information on the current program.**

> ⚠ The **tvtv** data is not available immediately after first installation. The **tvtv** data is only updated/loaded after the first EPG update at night or the first time you switch the receiver to standby mode.

Calling up the EPG

The EPG is opened by pressing the 📺 button. You will automatically see the view you selected in the menu ("Settings", "User-Defined Settings", "EPG Settings") - irrespective of which view you selected last time before exiting the EPG. The following display appears (example):

Selected view of EPG

Current date and time

Current picture for the selected channel

Channel number from the complete list, channel name, current broadcast with progress bar

14-day calendar for the programme guide

Date and time of the selected programme with category, duration and picture format

At this point you will be shown any age restrictions for the highlighted programme, if this is supplied by the channel provider

Note: *If you selected a favourites list before opening the EPG, the EPG will only show the data for the channels that are included in this favourites list. Press the* 📺 *button again to display the EPG for all channels.*

Premium *tvtv* EPG

Selection options (remote control buttons in the EPG)

- **[FAV]** (red) button
  Open the timer list (display of all pre-programmed recordings/reminders)

- **[◄◄][►►]** button
  Navigation in the individual views (e.g. 15 minutes skip forward in the "Current" view)

- **[OPT]** (yellow) button
  Open a preview of the currently selected channel (programme listings)

- **[TV/R]** (blue) button
  Open the category selection (sorting the programmes by categories such as movies, sport, series ...)

- **[+/−]** button
  (P+) jump forwards 24 hours in the EPG, (P-) jump backwards 24 hours in the EPG (e.g. into "Current" and into "Coming up")

- **[OK]** button

  Select the currently highlighted channel in all views.

  Pressing the [OK] or [EXIT] button again closes the EPG and the selected channel is shown again on the TV screen

- **[●]** (red dot) button
  Add a programme to the recording settings

- **[TEXT]** button
  Search for a particular programme or programme content (e.g. key word search from the detailed information) or other programme times (enter the search expression using the numeric keypad on the remote control, see also the "Operating instructions" and "Alphanumeric entries" chapters)

- **[i]** button
  Shows any further information on the selected programme

- **[MENU]** button
  Call up the Extras menu

Navigation within each view is always performed using the cursor buttons (⬦). The

[▲][▼] buttons allow you to select individual channels/programs, and the **[◄][►]** buttons allow you to scroll from page to page in the currently selected list.

Pressing the **[EPG]** or **[BACK]** button exits the EPG and returns to the TV picture.

Views of the EPG

"Current" View

The "Current" view can be called up at any time in EPG by pressing the [PIP] (green) button.

In the "Current" view you can see all channels displayed in the order of the overall channel list. Provided that EPG data has been supplied/transmitted by _tvtv_ or by the channel provider, the receiver shows the current programme being shown on each channel, with start time, finish time, and progression bar.

You can use the cursor buttons ( ) or the number buttons to select the desired channel and, if available, you can use the [i] button to open further information on the desired programme.

If you want to view the programme currently being shown on a channel, you need not exit the EPG, just select the desired channel and press the [OK] button. At the top right of the screen you will see the current TV picture for the selected channel. However, the picture only appears once the [OK] button has been pressed. Previously what you saw was the picture of the old channel that had previously been selected, even though the EPG was no longer set to that channel.

The [▶▶] button allows you to look ahead in 15 minute steps to future programmes on the channels (press the [◀◀] button to return to the current time).

By pressing the [PIP] (green) button in the "Current" view you can display a schedule in 15-minute steps (see screenshot right centre). The desired time is selected using the cursor buttons ( ) and confirmed using the [OK] button.

Premium **tvtv** EPG

"Coming up" view (programme listings)

The "Coming up" view can be called up at any time in EPG by pressing the ⬛ (yellow) button.

In the "Coming up" view you will see all the programmes that will be shown on the channel previously selected in the "Current" view. Provided that EPG data has been supplied/transmitted by **tvtv** or by the channel provider, the receiver displays the programme lists for two weeks in advance.

You can use the cursor buttons (✛) to select the desired programme and, if available, you can use the ⬛ button to open further information on the desired programme.

You can use the ◀◀ ▶▶ buttons to scroll through the channels in the order of the overall channel list (the channels can also be selected by entering digits with the number buttons); you remain however in "Coming up" view.

You can also press the ⬛ (yellow) button to select the desired channel. The overall channel list is then displayed (see screenshot right). Use the cursor buttons (✛) to select the desired channel. Confirm the selection with the ⬛ button. The receiver automatically returns to the "Coming up" view.

The ⬛ button allows you to scroll backwards and forwards a day at a time.

Using the ⬛ (red dot) button you can copy the selected programme to the recording settings (see "Recording" chapter).

Categories view

The "Coming up" view can be called up at any time in

EPG by pressing the 🔲 (blue) button.

In the "Categories" view you can see all programmes, sorted by category and start time.

The following main categories are available for selection: Pick of the day, My hints (see "Extras menu"), Movies, Entertainment, Sport, News, Children's TV, Music, Special interests, Parental control and HD transmissions.

Some main categories are further subdivided into sub-groups, such as movies (action films, comedies, detective films ...)

Programmes can only be assigned to the above categories if the EPG data has been supplied by _tvtv_ or the channel provider.

Select the required category using the ◄◄ ►► buttons.

You can also press the 🔲 (yellow) button to select the desired category. The list of categories is then displayed (see screenshot right). Select the required category using

the cursor buttons (✛). Confirm the selection with the

🔲 button. The receiver automatically returns to the "Categories" view.

You can then use the cursor buttons (✛) to select the desired programme in that category and, if available, you

can use the [ℹ] button to view further information on the desired programme.

The [±] button allows you to scroll backwards and forwards a day at a time.

Using the [⬤] (red dot) button you can copy the selected programme to the recording settings (see "Recording" chapter).

Premium *tvtv* EPG

Extras

The "Extras" menu is opened in the EPG by pressing the

[MENU] button. In this menu you are offered the following additional sorting/search facilities:

- My hints
- Actors list

The selection is made using the [▲][▼] buttons and

confirmed by pressing the [OK] button.

My hints

You can create your own categories within this section.

Press the [TEXT] button to activate the input field. Now you can enter the search expression/category name for your new category. Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries".

To search the available programmes for one of your hints/categories, you need only select the desired recommendation/category in the categories view (called

up using the ▣ (blue) button) or in the "My hints" window,

and press the [OK] button to confirm.

If programmes are available for your hints (categories), in future this will be indicated by an asterisk in a blue field when opening the EPG. Each time the EPG is updated the programmes for the hints you created will be updated automatically.
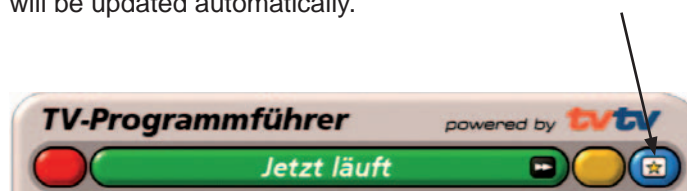
Actors list

In this section you have the facility to select an actor that is shown in the Actors list (using the cursor ( ) buttons) and the by pressing the [OK] button to search through all available data for programmes in which this person appears. If there are programmes available for which the name of this person appears in the information data, a list of the relevant programmes will be displayed by the receiver.

To find a specific actor more quickly, you can input their name using the numeric keypad and their alphanumeric assignments. Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries". The only data that will be shown is that for persons whose name includes the characters you input (see screenshot on the right).

You can also select your favourite actors using the cursor ( ) buttons, providing their names are in the list; and then press the (red dot) button to confirm their inclusion in the "My hints" section.

If programmes are available for your hints (categories), in future this will be indicated by an asterisk in a blue field when opening the EPG. Each time the EPG is updated the programmes for the hints you created will be updated automatically.

Premium tvtv EPG

Search function

The search function can be called up in EPG at any time by pressing the [TEXT] button. The following display appears (see screenshot on the right). You have the following search options:

- Further programme times for the currently selected programme (in the example on the right "King of Queens")

- Actor: Select the actor listed in the channel information (selection using the [◀][▶] buttons)

- Key word search in detailed information

- Full text search (called up by pressing the [TEXT] button again)

The selection is made using the [▲][▼] buttons. To open the menu for "More Episodes" and "Keywordsearch in detailed information", press the [OK] button.

More Episodes

The following display appears (see example on the right):

The selection is made using the [▲][▼] buttons.

Actor

Use the [◀][▶] buttons to select an available actor.

Press the [OK] button to see a list of those programmes (if any) in which this actor appears. This depends on the name of this actor being included in the channel information. The following display appears (example):

The selection is made using the [▲][▼] buttons.

Key word search in detailed information

The following display appears (see example on the right):

Now use the cursor (⟐) buttons to select the first letter of the word by which you want to search the available EPG information. At the start of the selection process, press the

[OK] button. You can now use the [◄] [►] buttons to select the desired word (see example on the right).

Pressing the [OK] button again starts the search for your key word.

You will then see a listing of all programmes that contain your key word in their detailed information.

Full text search

After calling up the search function, press the [TEXT] button again to gain access to the full text search.

The following display appears (see example on the right): If necessary the last search expression used is offered.

Pressing the [◄] button allows you to delete your input or a search expression provided by the receiver.

Search expressions are input using the numeric keypad as described in "Operating instructions", "Alphanumeric entries".

Pressing the [OK] button starts the search for your search expression.

You will then see a listing of all programmes that contain your search expression in their detailed information.

Recording settings (programming the timer)

The ⬤ (red dot) button allows you to set a programme for recording at any time. The programme to be recorded can be selected in any of the EPG views, provided

the ⬤ (red dot) button appears at the bottom of the screen display.

Note:

You can set the automatic lead-in and run-on times for your recordings in the menu "Settings", "User-Defined Settings", "EPG Settings" *(see also the "User-Defined Settings", "EPG Settings" chapters)*

Programme appears in EPG:

Select the desired programme and press the ⬤ (red dot) button. The following display appears (see example screenshot on the right):

Use the ◀▶ buttons to select the desired recording mode. The following recording mode options are available:

- Once: The recording will be performed once

- Daily: The recording will be performed daily at the time you specify

- Weekly: The recording will be performed once a week on the same day and at the same time

- User-defined: The recording will be performed on days specified by you at times specified by you

- Series recording: The selected programme will be set up by the EPG for recording every time it is broadcast (may even be on different channels). However this function requires an update of the EPG data (the update time for the EPG can be specified in the "Settings" menu, "User-Defined Settings", "EPG Settings").

- Reminder function: See "Reminder function (switch over to programme)" section in this chapter.

Use the cursor buttons (⬥) to select further items and use the numeric keypad to make the settings. When all settings have been made, press the ⌷OK⌷ button to save the recording settings. You can view the scheduled recordings in the timer list view of the EPG (see "Timer list" chapter).

Programme not in EPG:

Select any programme on the channel on which the desired programme is to be broadcast at a later date,

and press the ⬤ (red dot) button. The following display appears (example):
As there is no EPG data, you must enter the data (date, start, end) manually. Enter the data using the cursor

buttons (⬉⬈) or numeric keypad. Press the OK button to save your settings.

Information on direct decryption using timers (recordings on encrypted channels):

The "Decrypt" field only appears when recording encrypted channels. If you want to make the recording unencrypted,

use the ◀ ▶ buttons to select "Yes"; if you want the recording to be made encrypted on the hard disk, select the "No" option. When doing this, note the following:

> ⚠️ **If two timers are set for encrypted channels, both with decryption set to "On", and the recording times overlap, it can happen that the first timer will record decrypted and the second timer will record encrypted. More details can be found under "Mainmenu", "Interfaces", "Common Interface".**

Setting the storage location for recordings

As described in the "Recording archive" chapter, it is possible to create folders for your recordings and to store them in these folders. If folders have already been created for recordings, you have the option of specifying a folder as the destination when scheduling recordings in the EPG. It makes no difference which recording mode you choose after selecting the folder (e.g. for a series recording, all subsequent recordings of the programme will be stored in the folder you have selected). The procedure is as follows:

In the recording settings, press the ▲ ▼ buttons to select the "Target" field and then press the

OK button. The following display appears (example):

Now use the ▲ ▼ buttons to select the desired folder or select "To Recording Archive record" and then press the

OK button.

The following display appears (example with a folder selected as the recording destination):

Now use the ▲ ▼ buttons to "Record to this folder" and then press the OK button. The receiver then returns automatically to the recording settings (see example screen).

You can now select the recording mode you want to use.

Recording "Once"

Use the ◄ ► buttons to select the "Once" recording mode (see screenshot on the right).

Use the ▲ ▼ buttons to switch to the "Date" field and use the ◄ ► buttons to select the desired recording day.

Use the ▲ ▼ buttons to switch to the "Start" field and use the ◄ ► buttons or the number buttons to select the desired recording start time.

Use the ▲ ▼ buttons to switch to the "End" and field use the ◄ ► buttons or the numeric keypad to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

Recording "Daily"

Use the ◄ ► buttons to select the "Daily" recording mode (see screenshot on the right).

Use the ▲ ▼ buttons to switch to the "Start" field and use the ◄ ► buttons or the number buttons to select the desired recording start time. Use the ▲ ▼ buttons to switch to the "End" and field use the ◄ ► buttons or the numeric keypad to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

Recording "Weekly"

⚠️ **Remember that the day of the week for the desired programme is loaded in the timer list and you can make no further manual corrections to it!**

Therefore, before pressing the OK button, select the programme on the day of the week that you will want to make the weekly recording in future.

Use the ◄ ► buttons to select the "Weekly" recording mode (see screenshot above). Use the ▲ ▼ buttons to switch to the "Start" field and use the ◄ ► buttons or the number buttons to select the desired recording start time.

Use the ▲ ▼ buttons to switch to the "End" and field use the ◄ ► buttons or the numeric keypad to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

Premium **tvtv** EPG

Recording "User-Defined"

Use the ◄ ► buttons to select the "user-defined" recording mode (see screenshot on the right).

Use the ▲ ▼ buttons to switch to the "Day" field and use the ◄ ► buttons to select the required day for the recording. Press the OK button to fix the selection (the day will be shown in red).
If necessary the receiver will suggest some days to you; you can accept these suggestions or deactivate them using the cursor buttons and pressing the OK button.

Use the ▲ ▼ buttons to switch to the "Start" field and use the ◄ ► buttons or the number buttons to select the desired recording start time. Use the ▲ ▼ buttons to switch to the "End" and field use the ◄ ► buttons or the numeric keypad to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

"Series Recording"

Use the ◄ ► buttons to select the "Series recording" recording mode (see screenshot on the right).

For series recording the receiver automatically takes the start and end of recording from the EPG data.

Press the OK button to save the recording settings.

Instructions for recording a series:

If the "Series recording" function is used to program recording of every edition or episode of a series, the EPG will locate the series in question on the updated schedules and automatically program the recording of them. A change in the time the series is broadcast is no problem for the EPG, as its programming is based on the series title.
This does, however, mean that the schedule change needs to have been notified prior to the last update of the EPG.

Reminder function (switch over to programme)

If you want to be reminded that a programme is about to start, you can activate the reminder function for the desired programme. The reminder function is set up in exactly the same way as programming a recording. The only difference is that the entry in the "Recording" line must be "Reminder".

Use the ▲ ▼ buttons to switch to the "Date" field and use the ◄ ► buttons to select the desired day.

Use the ▲ ▼ buttons to switch to the "Start" field and use the ◄ ► buttons or the number buttons to select the desired time to switch over.

When all settings have been made, press the OK button to save the reminder settings.

The programme is marked in the programme guide and in the timer list view (see screenshot on the right) with a green dot and the receiver will automatically switch over to the pre-selected channel at the start of the programme.

Premium *tvtv* EPG

Timer list view

The "Timer list" view can be called up at any time in EPG by pressing the ▣ (red) button. The following display appears (example):

The timer list view shows you all the recordings and reminders that are scheduled (marked green).

The ◄◄ ►► buttons allow the recordings to be sorted into "Once" or "Repeated" recordings.

The cursor buttons (✛) allow you to select a recording/reminder. Press the OK button to switch to the channel on which the recording/reminder is scheduled.

The ± buttons allow you to skip backwards and forwards through the future scheduled recordings, a day at a time.

The ● (red dot) button allows you to edit a recording/reminder that has been scheduled. You have the following selection options (select with the ▲ ▼ buttons and confirm with the OK button):

Editing options for series recording:

* Only this one selected episode of a series recording will not be recorded
* No further selected episodes of a series recording will be recorded
* Edit the selected recording

Editing options for other types of recording:

* Scheduled recording is deleted
* Edit the scheduled recording

Editing options for the reminder function:

* Reminder is deleted
* Edit the reminder

Editing a recording

When editing a recording, you can change all parameters apart from the recording mode. Make the changes using the cursor (⊕) buttons and the numeric keypad. Press the OK button to confirm your changes, and return to the timer list view.

Overlaps of recordings

If your scheduled recordings overlap, the timer list view for the receiver shows the overlapping recordings with a brown background and the recording leading to the overlap is additionally shown in red script. You now have the option of deleting one of the recordings, or to reschedule it so there is no longer an overlap.

If the overlap arises when the recording is input, the receiver notifies you directly of the overlap as soon as you give the "Save" command for the recording.

Editing the channel list

> ⚠ **All changes to the channel lists and favourites lists which you can make as described in the following chapter are not saved by the receiver unless, when you exit the menu by pressing the ⌷BACK⌷ button, you answer "Yes, save changes" to the question "Save changes?", using the ⌷OK⌷ button. If you give the answer "No, do not save the changes", all the settings/changes you made will be discarded and not saved.**

Calling up the "TV-Channellist" menu

You have two ways of accessing the edit menu for the channel lists:

1. Directly via the channel list

- On the TV picture, press the ⌷OK⌷ button to open the channel list

- Then press the ⬛ (red dot) button

or

2. Using the "Edit channel lists" option in the main menu

- On the TV picture, press the ⌷MENU⌷ button to open the main menu

- Then select the "Edit channel lists" option, using the ⌷▲⌷⌷▼⌷ buttons, and confirm the call up from the menu using the ⌷OK⌷ button

The procedure for editing the channel lists and channels is the same in both menus.

The following display appears:

The receiver notifies you that the editing options in the "Edit channel list" menu can be called up using the ⬛ button. If you do not want to see this notification again when next you call it up, press the ⬛ button. If you want to restore this notification when next call up the "Edit TV-Channellist" menu, press the ⌷OK⌷ button.

In the following chapter we have chosen to use the first option to explain the editing of the channel lists.

The following display appears (example):

Selecting the channel list/favourites list to be edited

Now use the relevant coloured button to select the desired channel list category (refer to the "Basic operation in TV or Radio mode (live operation)", "Channel selection from the channel list" chapters for details). The following display appears (example):

Currently selected channel list

Call up alphabetic sorting
(OPT yellow button)

Currently selected channel

Live picture from selected channel

Call up the favourites lists
(FAV red button)

Signal strength and quality

Channel list

Call up the complete list/satellites list
(PIP green button)

Channel data:
- Transmitting satellite
- Transponder frequency
- Polarization
- Symbol rate

Call up editing options
((red dot) button)

Call up the search function
(TEXT button) can be called up from any channel list

Select
(button)

Call up the radio channel lists
(TV/R blue button)

Editing the channel list

Selecting the channels to be edited

Select a channel in the selected channel list/favourites list using the cursor ( ) buttons (see example screenshot on the right).

To select several channels to be edited at the same time, if they are not listed directly following each other in the selected channel list, use the cursor ( ) buttons to select the first channel to be selected, and then press the ▐▐ button. The channel is shown with a coloured background. Now select the other channels to be edited at the same time using the cursor ( ) buttons, and select each further channel to be edited using the ▐▐ button (see example screenshot on the right). To select several channels that are listed directly following each other in the selected channel list, you can start block selection (see "Edit channels" "Start Blockselection").

Editing channels (channel lists)

After selecting the channel(s) to be edited, press the ⬤ (red dot) button. The following display appears (see screenshot on the right).

"Start Blockselection" only appears if just one channel has been selected for editing.

Move

Use the [▲][▼] buttons to select "Move" and confirm your selection with the [OK] button.
The following display appears (see example screenshot on the right):

Now use the cursor (⊕) buttons or the numeric keypad to select the new channel memory position(s), then confirm the insertion with the [OK] button.

Delete

> ⚠️ **Channels that are deleted from a list other than a favourites list are deleted irrevocably and can only be restored by performing a new channel search.**
>
> **Deletion of channels from a favourites list is the only circumstance in which the channels remain present in the complete list; the deletion only applies to the selected favourites list.**

Use the [▲][▼] buttons to select "Delete" and confirm your selection with the [OK] button.
The selected channel(s) will be deleted.

Skip

Use the [▲][▼] buttons to select "Skip" and confirm your selection with the [OK] button.
The following display appears (see example screenshot on the right):
The channel that is to be skipped in future is shown in grey in the channel list. If you want to select it in future, you can only do this by direct selection from the channel list. When manually zapping through the channels using the [+][-] buttons, the channel will be skipped and no longer displayed.

This function can be cancelled using the edit menu (select: "Restore to zap list").

Editing the channel list

Lock

Use the ▲▼ buttons to select "Lock" and confirm your selection with the OK button.

To lock the channel you must now enter your four-digit PIN code (factory setting: 0000). The following display appears (see example screenshot on the right):

The locked channel is now displayed in the channel list with a padlock on the right hand side, and in future can only be viewed by inputting the four-digit PIN code (factory setting: 0000).

This function can be cancelled using the edit menu (select: "Unlock").
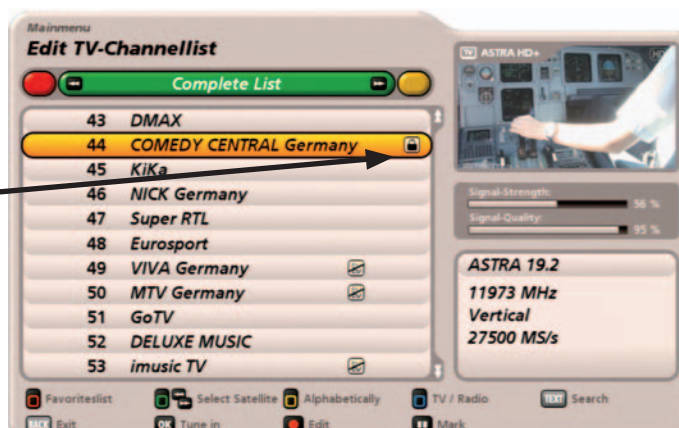
Add to favourites list

Use the ▲▼ buttons to select "To Favorite: ***". Now use the ◄► buttons to select the desired favourites list (see example screenshot on the right), to which you want to copy the channel(s). Confirm your selection with the OK button.

The following display appears (see example screenshot on the right):

The selected channel(s) are copied into the favourites list you selected.

tvtv (on/off)

> ⚠️ Because of the large amount of data being transmitted, the receiver cannot store all the data for the channels supported by EPG. Therefore the receiver configuration is factory-set to accept *tvtv* data for only a limited number of channels.

You can only use this function if Premium **tvtv** EPG data is available for the selected channel.

Use the ▲ ▼ buttons to select "tvtv off" or "tvtv on".

Depending on whether Premium **tvtv** EPG support is activated or deactivated, you can now set the support to "on" or "off" by confirming with the OK button.

Support activated

Support <u>not</u> activated

Channels for which support is activated can be recognised by the following logo, which appears after the name of the broadcaster. Channels for which support is not activated can be recognised by the crossed out logo (see screenshots above).

⚠ If several channels use the same **tvtv** data, the following warning message is displayed when you deactivate the function (see screenshot on right). In this case, no **tvtv** data is stored for the other affected channels.

Warning

tvtv-data is used for multiple programs!(2)
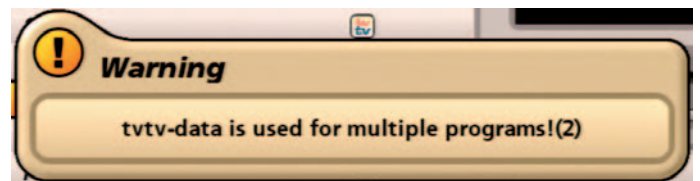
For example: If you deactivate support for RTL 2 CH, no more data is loaded for RTL 2 and RTL 2 Austria either.

Make this setting for your desired channels. For better orientation, you can display a channel list in the "Complete list/Satellite lists" category (green), which includes only those channels supported by Premium **tvtv** EPG.

The **tvtv** list in the category "Satellite lists" is selected using the ◄ ► buttons.

This setting can be changed at any time you like.

Start block selection

Use the ▲ ▼ buttons to select "Start Blockselection" and confirm your selection with the OK button. You can now use the ▲ ▼ buttons to start block selection at the previously selected channel. This selects the channels in the sequence in which they appear in the previously selected channel list and applies a coloured background to them (see example screenshot on the right):

Then press the ● (red dot) button. You can now carry out all the editing options for the selected channels as when an individual channel is selected (apart from the "tvtv off/on" function). Select the desired action ("Move", "Delete", "Skip", "Lock" or "To Favorite"), using the ▲ ▼ buttons, and confirm your selection with the OK button. You can find an explanation of the individual edit options under "Editing channels (channel lists)" in this chapter.

Editing the channel list

Editing channels (favourites lists)

After selecting the channel(s) to be edited, press the ⬛ (red dot) button. The following display appears (see screenshot on the right).

Move

See "Editing channels (channel lists)" "Move".

Remove from favoritelist

Use the [▲][▼] buttons to select "Remove from favoritelist" and confirm your selection with the [OK] button.

The selected channel(s) are deleted from the previously selected favourites list, but not from the complete list.

Lock

See "Editing channels (channel lists)" "Lock".

Start block selection

See "Editing channels (channel lists)" "Start Blockselection".

Rename favourites list

Use the [▲][▼] buttons to select "Rename favoritelist" and confirm your selection with the [OK] button.

You can now rename the favourites list you selected. The following display appears (see example screenshot on the right).

Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries".

Confirm the name you have entered for the favourites list using the [OK] button.

"Start Blockselection" only appears if just one channel has been selected for editing.

Calling up the recording archive

The recording archive is called up by pressing the ⬚ᴬᴿᶜᴴᴵⱽᴱ button or the ▶ button. Each time the EPG is opened, you will automatically be shown the view you had selected the last time you exited the archive. The following display appears (example):

In this "Coming up window", you are always shown the current programme on the last channel to be selected, with the channel name.
After the start of playback of a recording, instead of the channel name you are shown the title of the recording being played back.

Selected view/sorting the recording archive

A recording identified with a red dot is a recording that is in progress

List of the available recordings, using the sort order selected above and the folders created

Details of the remaining memory capacity of the integral hard disk

Date and time of the selected recording with category, duration and picture format

At this point you will be shown any age restrictions for the highlighted programme, if this is supplied by the channel provider

Recordings which have not yet been viewed (in part or in full) are flagged as "New" (see screenshot above). As soon as part of the recording has been viewed, the last screen of the recording before the playback stop is displayed in front of the name of the recording (see screenshot above).

Recording archive (play back/edit recordings)

Selection options (remote control buttons in the recording archive)

- ▣ (red) button
  Call up the chapter view or the automatic creation of chapters (if not yet available)

- ▣ (green) button
  Call up ordering of recordings (ordered by date, ordered by title and ordered by duration)

- ▣ (yellow) button
  Display the recordings by channel

- ▣ (blue) button
  Display the recordings by categories (e.g. movies, news, sport, series ...)

- ◀◀ ▶▶ buttons
  Changes to the sorting in each selected category

- OK button
  The first press starts playback of the last item in the "Preview window". If the button is pressed again, playback is continued in full-screen mode

- ▶ button
  Starts playback of the selected recording from beginning in full-screen mode

- ● (red dot) button
  Call up the edit menu

- TEXT button
  Search for a particular recording or programme content (e.g. key word search from the detailed information) or other recordings of this programme (enter the search expression using the numeric keypad on the remote control, see also the "Operating instructions", "Alphanumeric entries" chapters)

- i button
  If available, shows further information on the selected recording

- ❚❚ button
  Select recordings

Navigation within each view of the recording archive is always performed using the cursor buttons (✥). The ▲ ▼ buttons allow you to select individual recordings, and the ◀ ▶ buttons allow you to scroll from page to page in the currently selected list.

Pressing the ARCHIVE or the BACK button exits the recording archive and returns to the TV picture.

Views of the recording archive (sorting the recordings)

When displaying the recordings you have the following sorting/display options:

- ▣ (green) button   Ordered by date (you can use the ◄◄ ►► buttons to choose between the sorting criteria of date, title or duration (recording length))

- ▣ (yellow) button   Ordered by channels (you can choose between the available channels using the ◄◄ ►► buttons). Only those channels for which a recording is available are shown.

- ▣ (blue) button   Ordered by categories/genres (you can choose between the available categories using the ◄◄ ►► buttons). Only those categories for which a recording is available are shown.

- ▣ (red) button   Chapter view (see "Chapter view" section in this chapter)

Recording archive (play back/edit recordings)

Folders in the recording archive

From software version 1.02, the UFS 922 includes the option of creating folders in the recording archive. You can give these folders the names of your choice and add recordings to them.

Creating folders

Use the [▲][▼] buttons to select any recording and then press the [●] (red dot) button. The following display appears (see screenshot on the right).

Use the [▲][▼] buttons to select the "Create new folder" option and confirm by pressing the [OK] button.

The following display appears (see example screenshot on the right): The receiver always suggests the recording that was selected when you switched to the edit menu automatically as the folder name. You can press the [◄] button to delete the name suggested by the receiver. You can then give the folder to be created a new name, as described under "Operating instructions", "Alphanumeric entries".

Note: *To create a subfolder in a folder you have already created, you must first open the main folder using the [OK] button. Then follow the same process described under "Creating folders".*

Editing folders (delete/rename)

Use the [▲][▼] buttons to select the folder to be edited and then press the [●] (red dot) button. The following display appears (see example screenshot on the right):

Use the [▲][▼] buttons to select the line containing the editing option you want to use.

Delete:
The folder must be empty to use this function. If the folder to be deleted still contains recordings, you must first delete these as described under "Editing recordings", "Delete". Press the [OK] button to confirm deletion of the selected folder.

Rename:

Confirm selection of "Rename" with the ⌐OK⌐ button. You can then give the folder a new name, as described under "Operating instructions", "Alphanumeric entries".

Create new folder:
See "Creating folders" section.

Playback of a recording

Use the ⌐▲⌐⌐▼⌐ buttons to select the desired recording. Confirm selection of the desired recording by pressing the ⌐OK⌐ button. Pressing the ⌐OK⌐ button again exits the recording archive and allows the desired recording to be viewed in full-screen mode. Playback starts at the last playback position.

If playback is started by pressing the ▶ button, playback of the recording starts from the beginning and in full-screen mode.

Playback functions

During playback of a recording you have the following options:

|			
⏸	Pause button		This stops playback; playback can be resumed either by pressing the pause button again or by pressing the play button
ℹ	Info button	1 x	This displays the playback info with elapsed and remaining times and the channel info plus title, genre etc. for the recorded programme (see screenshot on the next page). To hide the playback info again, press the i button twice
		2 x	This displays the info text recorded with the programme. To hide the info text again, press the i button again
⏩	Fast forward button		Available fast forward speeds: 2, 4, 8, 16 and 32 times. Each time the fast forward button is pressed, the fast forward speed increases another step. Pressing the rewind button reduces the fast forward speed step by step. Press the "Play" button to return to the normal playback speed
⏪	Rewind button		Available rewind speeds: 2, 4, 8, 16 and 32 times. Each time the rewind button is pressed, the rewind speed increases another step. Pressing the fast forward button reduces the rewind speed step by step. Press the "Play" button to return to the normal playback speed
▶	Play button		Pressing the "Play" button reverts from fast forward/rewind mode or from pause mode to normal playback and/or shows/hides the progress bar
■	Stop button		This stops playback or fast forward/rewind; the receiver automatically returns to the recording archive
▲	Cursor button (up arrow)		Each time the cursor button (up arrow) is pressed, the playback point in the recording skips one chapter forwards
▼	Cursor button (down arrow)		Each time the cursor button (down arrow) is pressed, the playback point in the recording skips one chapter backwards
▶	Cursor button (right arrow)		Each time the cursor button (right arrow) is pressed, the playback point in the recording skips 30 seconds forwards
◀	Cursor button (left arrow)		Each time the cursor button (left arrow) is pressed, the playback point in the recording skips 30 seconds backwards
FAV	Fav (red) button		Call up chapter view/close chapter view
OPT	Opt (yellow) button		Call up option selection (sound selection, subtitles, HDMI/YUV format ...)

Recording archive (play back/edit recordings)

OK	OK button	Call up the recording archive during playback. The playback continues to run in the preview window
⦿	(red dot) button	Create chapter

**You will see this display after starting playback of the recording in full-screen mode or by pressing the 🇮 button once**

Wildes Südamerika
00:00:18   17 Min
              - 00:16:07 h
🕐 14:46
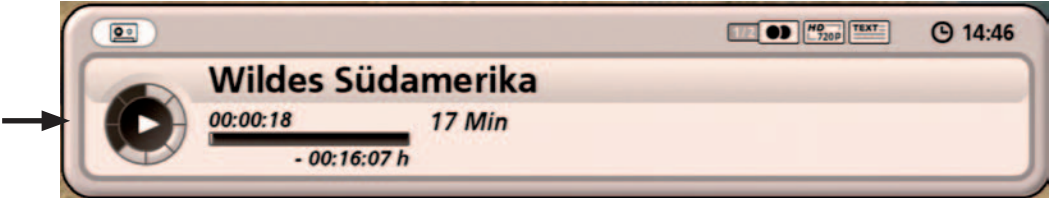
You will see this display during all types of fast forward/rewind or by pressing the ❚❚ button or ▶ button

00:02:51   + 00:00:30   - 00:13:34 h
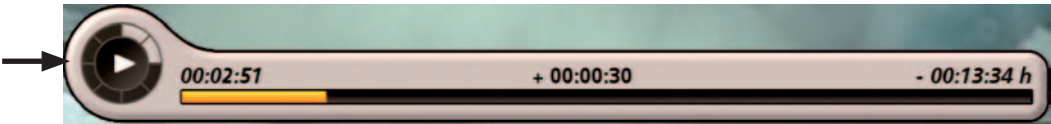
Creating chapters

To create a chapter during playback of a recording, press the ⬤ (red dot) button. The receiver will automatically assign a chapter mark to the current position.

01:50:05   - 00:36:40 h
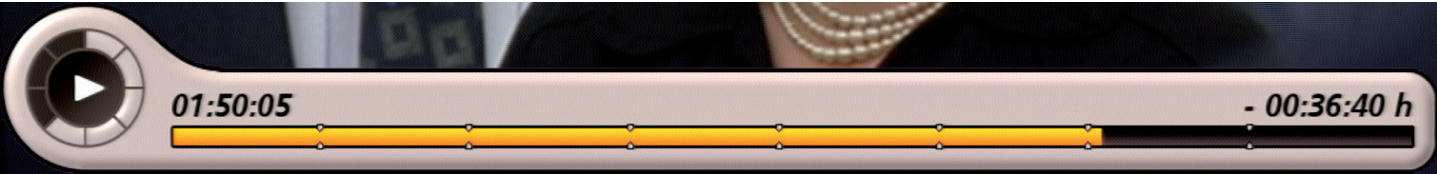
To view the chapters you have created in a recording, press the ▣ (red) button (see "Chapter view" section) during the playback or whilst in the recording archive.

Selecting the recordings to be edited

To select a recording, select the desired recording in the selected sort list, using the cursor ( ) buttons (see example screenshot on the right). If the relevant recording is stored in one of the folders you have created, first select the folder containing the recording using the cursor ( ) buttons and then confirm with the OK button. Now select the recording to be edited using the cursor ( ) buttons.

To select several recordings to be edited at the same time, if they are not listed directly following each other in the selected sort list, use the cursor ( ) buttons to select the first recording to be selected, and then press the button. The recording is given a coloured background and marked with a tick. Now select the other recordings to be edited at the same time using the cursor ( ) buttons, and select each further recording using the button (see example screenshot on the right). To select several recordings that are listed directly following each other in the recording archive, you can start block selection (see "Edit recordings" "Start Blockselection").

Editing recordings

After selection of the recording(s) to be edited, press the (red dot) button. The following display appears (see screenshots on the right).

"Start Blockselection" only appears if just one recording has been selected for editing.

Recording archive (play back/edit recordings)

Delete

⚠️ **Deleted recordings are irrevocably deleted and can only be restored by re-recording the programme!**

Use the ▲ ▼ buttons to select "Delete" and confirm your selection with the **OK** button.
The selected recording(s) will be deleted.

Lock

Use the ▲ ▼ buttons to select "Lock" and confirm your

selection with the **OK** button. In order to activate the lock you must input your four-digit PIN code (factory setting: 0000).
The following display appears (see example screenshot on the right):
The locked recording is displayed in the recording archive with a padlock on the right hand side, and in future can only be viewed by inputting the four-digit PIN code (factory setting: 0000).

This function can be cancelled using the edit menu (select: "Unlock").

Rename

Use the ▲ ▼ buttons to select "Rename" and confirm

your selection with the **OK** button.

You can now rename your selected recording. The following display appears (see example screenshot on the right).

Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries".

Confirm the name you have entered for the favourites list

using the **OK** button.

Changing the category

Use the [▲][▼] buttons to select "Change category". Now use the [◄][►] buttons to select the desired category (see example screenshot on the right), to which the recording(s) should be assigned. Confirm your selection with the [OK] button.

If no appropriate category is available, you can create the desired category yourself. Use the [◄][►] buttons to select "Edit category..." and confirm by pressing the [OK] button.

The following display appears:

Press the [TEXT] button to create a new category.

The following display appears:

Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries".

Confirm the name you have entered for the new category using the [OK] button.

You can now assign the new category you have created in the same way as all existing categories, as described under "Change category".

Recording archive (play back/edit recordings)

Recordings: cut, split, copy

Note: *Encrypted recordings can only be edited after decryption. As long as the recording is not decrypted, "Descrypt" is always displayed instead of "Recording: Cut". Confirm your selection of "Decryption" as described under "Descryption" in this chapter.*

Use the ▲ ▼ buttons to select "Recording". Now use the ◄ ► buttons to select the desired action (see example screenshot on the right) and confirm your selection using the OK button.
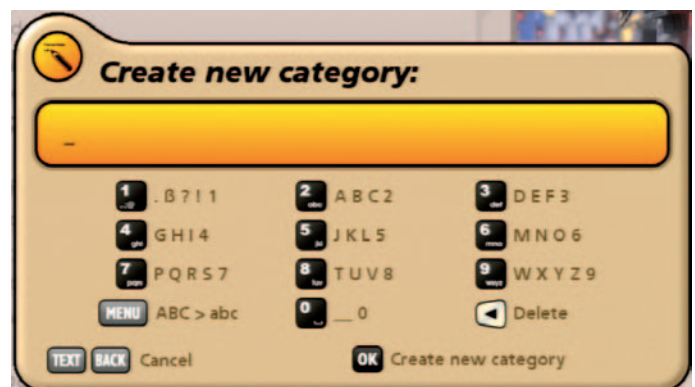
⚠️ **Before cutting or splitting a recording for the first time you should make a copy of the recording to be edited, so that if you make a mistake you can recover the recording. See "Copy" in the relevant paragraph of this chapter for details.**

Copy

The following display appears (example):
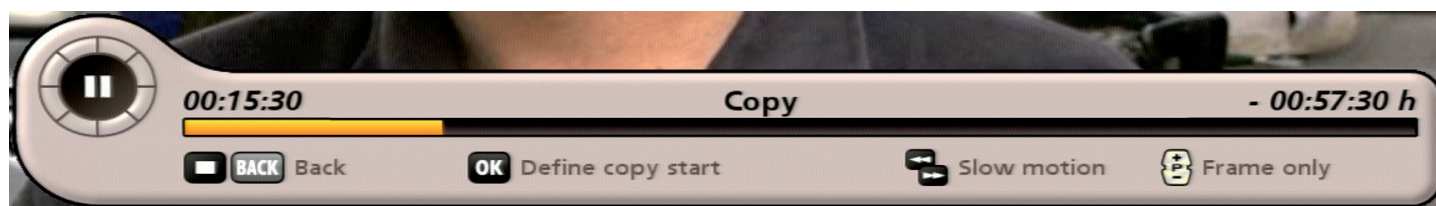
Now use the cursor ( ) buttons, the ◄◄ ►► buttons or the +/- button to select the desired start of the section to copy and then confirm by pressing the OK button.

The following display appears (example):

Now use the cursor ( ) buttons, the ◄◄ ►► buttons or the +/- button to select the desired end of the section to copy and then confirm by pressing the OK button. The following display appears (example):

Use the ▲ ▼ buttons to select "Copy recording" and confirm your selection with the OK button. The receiver will then commence the copying operation for the section that you have selected.
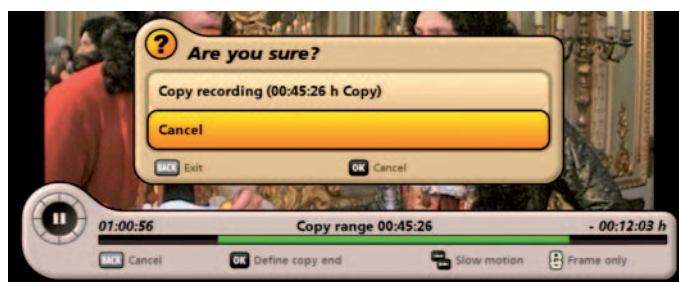
During copying, you will see the following display (example):
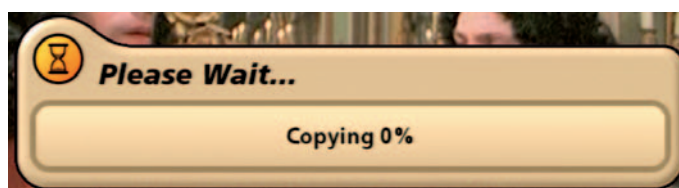
On completion of the copying operation the receiver automatically returns to the recording archive. The copy is given the same name as the original, except that a "C" is added at the end of the name. If you want you can now call up the "Rename" edit function, as described in this chapter, to assign it a new name.

Recording archive (play back/edit recordings)

Cut

> **Before cutting a recording for the first time you should make a copy of the recording to be cut, so that if you make a mistake you can recover the recording. See "Copy" in the relevant paragraph of this chapter for details.**
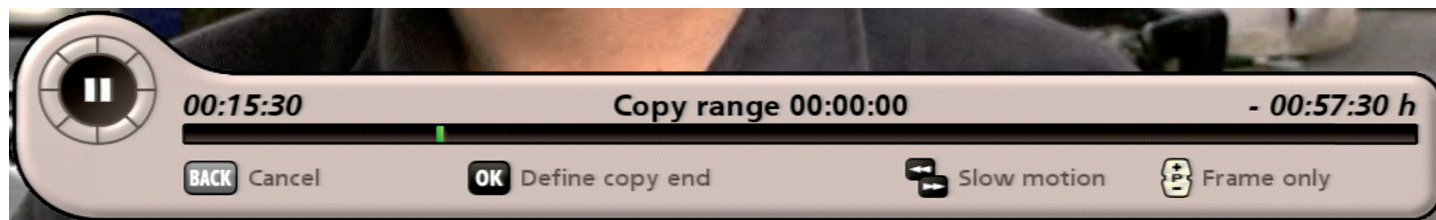
The following display appears (example):

Now use the cursor (⬤) buttons, the ◄ ► buttons or the +/- button to select the desired start of the section to be

cut from the recording, and then confirm by pressing the OK button.
The following display appears (example):

Now use the cursor (⬤) buttons, the ◄ ► buttons or the +/- button to select the desired end of the section to be

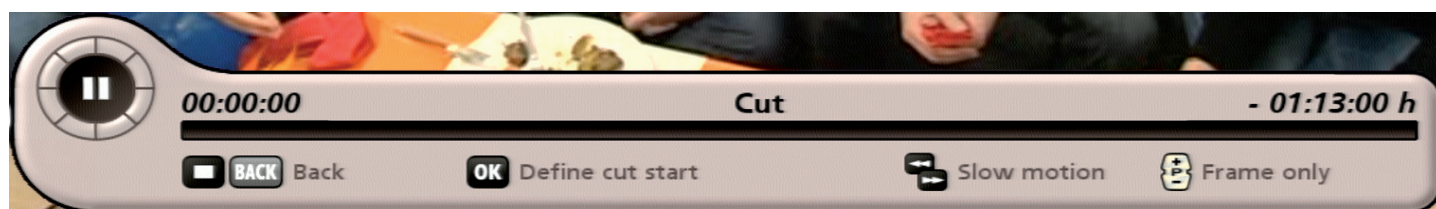cut from the recording, and then confirm by pressing the OK button. The following display appears (example):

Use the ▲ ▼ buttons to select "Cut recording" and

confirm your selection with the OK button. The receiver will then commence the cutting operation for the section that you have selected.

On completion of the cutting operation you can cut another section from the selected recording in the same way, or

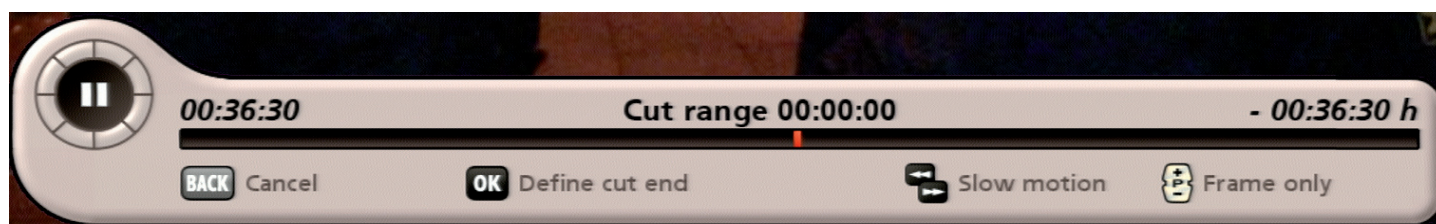press the BACK button or the ■ button to revert to the recording archive.

> ### Split

> **Before splitting a recording for the first time you should make a copy of the recording to be split, so that if you make a mistake you can recover the recording. See "Copy" in the relevant paragraph of this chapter for details.**
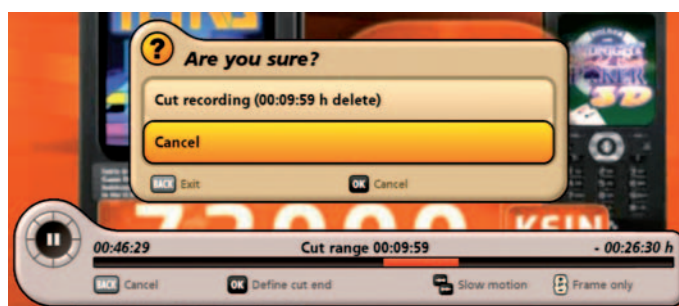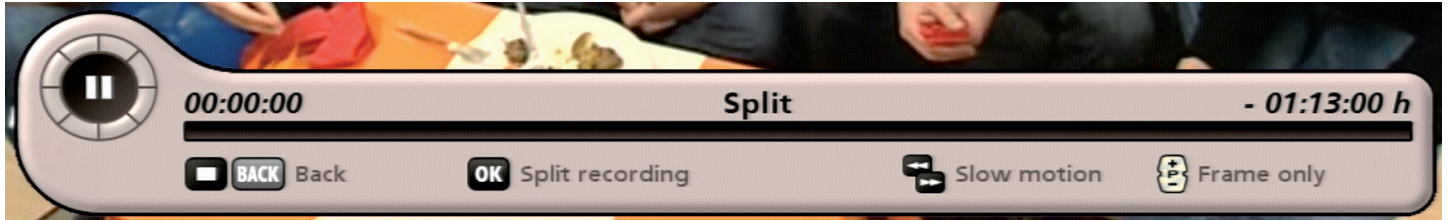
The following display appears (example):

Now use the cursor (⊕) buttons, the ◀◀ ▶▶ buttons or the +/- button to select the desired time at which the recording should be split, and then confirm by pressing the OK button.
The following display appears (example):

Use the ▲ ▼ buttons to select "Split recording on" and

confirm your selection with the OK button. The receiver will then commence the splitting operation at the time point that you have selected.
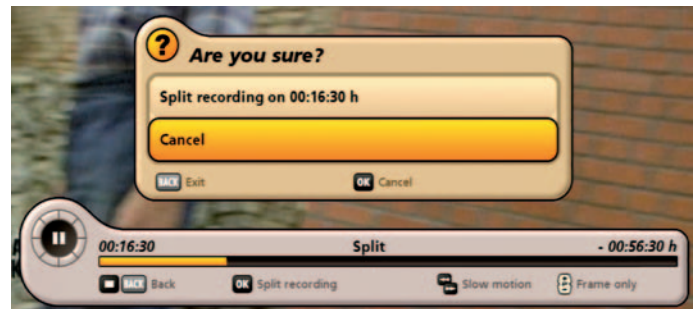
On completion of the splitting operation the receiver automatically returns to the recording archive. Both parts are given the same name. If you want you can now call up the "Rename" edit function, as described in this chapter, to assign one or both parts new names.

Recording archive (play back/edit recordings)

Creating a new folder

See "Folders in recording archive", "Creating folders".

Moving to a folder

You can use this function to move the recording selected before calling up the edit menu to a folder you have created. Use the ▲▼ buttons to select "Move to folder...". Then press the OK button. The currently available folders are displayed. Use the ▲▼ buttons to select the desired folder and confirm by pressing the OK button. The following display then appears (example):

Use the ▲▼ buttons to select "Move recording(s) to this folder" and confirm by pressing the OK button. The receiver moves the recording to the selected folder. The receiver then automatically opens this folder and you will see a display of the previously selected recording in the folder. Press the BACK button to return to the main overview of the recording archive.

If you are not sure which folder you are currently in, this is indicated at the top of the display. See example screenshot on the right.

Decryption

The "Decrypt" option is only displayed if a recording was made from an encrypted channel with the "Decryption: No" setting.

Press the OK button to decrypt the recording. The symbol for an encrypted recording (key) is crossed out (see screen in bottom right). As soon as you next switch the receiver to standby the recording will be decrypted.

The receiver display shows the progress of the decryption. Wait to turn the receiver back on until the decryption is complete and the receiver is in standby mode.

Copying to USB data carrier

⚠️	The connected USB data carrier must be "FAT/FAT 32" formatted. Successful USB data carrier initialisation is indicated by the "USB" and "HDD" symbols on the front display. If both symbols are lit, the data carrier can be used.

Use the ▲▼ buttons to select "Copy to USB Device" and confirm your selection with the OK button. The following display appears (example):

Use the ▲▼ buttons to select the desired storage location here.

| ⚠️	A USB storage medium or partition with insufficient memory capacity is marked in red (see example screenshot on right). It is not possible to copy the selected recording(s) to this storage location. Select a storage location with sufficient space (displayed in black).

Then press the OK button to start the copying operation. The progress of the copying is shown in the channel information (called up using the i button from the TV picture), see example screenshot below.

Recording archive (play back/edit recordings)

Start block selection

Use the ▲▼ buttons to select "Start Blockselection" and confirm your selection with the OK button. You can now use the ▲▼ buttons to start block selection in the previously selected recordings. This selects the recordings in the sequence in which they appear in the previously selected sort list and applies a coloured background to them (see example screenshot on the right):
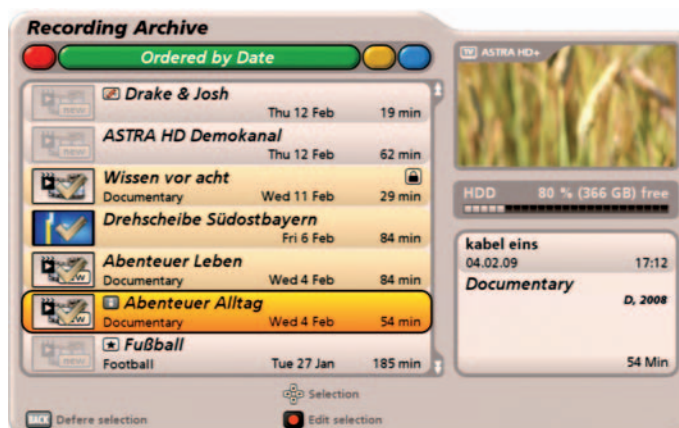
Then press the ⬤ (red dot) button. You can now perform the "Delete", "Lock" and "Change category" edit options for all selected recordings as for an individual selected recording Use the ▲▼ buttons to select the desired edit option and confirm your selection using the OK button. You can find an explanation of the individual edit options under "Edit recordings" in this chapter.

Chapter view

The chapter view for a recording is called up using the FAV (red) button in the recording archive. The following display appears (see example screenshot on the right):

Note:

When the chapter view is called up, the receiver automatically creates seven chapters for the recording you select, if this has not already been done. This function is not performed if you have already created chapters manually.

Use the ▲▼ buttons to select the desired chapter. To start playback from the selected chapter, press the OK button. During playback you can press the FAV (red) button to display the chapter view again, and if desired use the ▲▼ buttons to select another chapter. This is called up by pressing the OK button (see example screenshot on the right).

Deleting chapters

Deleting a chapter:

Use the ▲▼ buttons in the chapter overview to select

the chapter to be deleted, and press the ● (red dot) button. The following display appears (see screenshot on the right).

Use the ▲▼ buttons to select "Delete" and confirm

your selection with the OK button. The selected chapter is deleted. The section of the recording assigned to that chapter is assigned to the preceding chapter that has not been deleted.

⚠ **Deleting chapters does not alter the recording in any way!**

Deleting several chapters:

Selecting the chapters to be deleted (not in the sequence of the "Chapters" overview):

To select several chapters to be deleted at the same time, if they are not listed directly following each other in the chapter overview, use the cursor (✛) buttons to select the first chapter to be selected, and then press the ❚❚ button. The chapter is shown with a coloured background. Now select the other chapters to be deleted at the same time, using the cursor (✛) buttons, and select each further chapter to be deleted, using the ❚❚ button.

Selecting the chapters to be deleted (in the sequence in the chapter overview):

To select several chapters that are listed directly following each other in the chapter overview, you can start block selection. First use the ▲▼ buttons in the chapter overview to select the chapter at which you want to start the block selection. Then press the ● (red dot) button and use the ▲▼ buttons to select "Start Blockselection". Confirm the selection with the OK button. Now you can use the ▲▼ buttons to select several chapters in their sequence within the chapter overview.

Deleting the selected chapters:

After selecting the chapters to be deleted, press the ● (red dot) button. Use the ▲▼ buttons to select "Delete" and confirm your action with the OK button. The selected chapters will be deleted. The sections of the recording assigned to these chapters are assigned to the preceding chapters that were not deleted.

⚠ **Deleting chapters, even if all chapters in a recording are deleted, does not alter the recording in any way!**

Main menu

Calling up the main menu and introduction

The main menu is opened by pressing the ⌷MENU⌷ button. The following display appears:

The programme showing on the currently selected channel always appears in the top right-hand corner of the main menu.

The selected menus, sub-menus and items, as well as the parameters to be set, are each marked in colour.

> ⚠️ **Always pay attention to the bar at the bottom of the on-screen display. This provides information about the next action/edit step.**
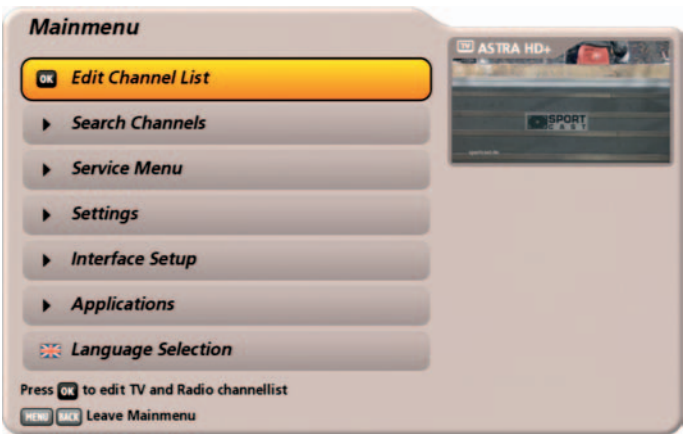
The submenus are selected using the ▲▼ buttons and called up using the ⌷OK⌷ button. Use the ▲▼ buttons to select the submenu items. The settings for the various parameters in the individual items are made using the ◄► buttons or the numeric keypad.

The main menu and submenus can be exited step-by-step using the ⌷BACK⌷ button. Press the ⌷MENU⌷ button to return directly from one of the menus to the TV picture.

Menu overview

Main Menu
(call up by pressing the [MENU] button)

Edit channel lists	Channel search	Service menu	Settings	Interfaces	Applications	Language selection
This is not explained in the "Mainmenu" chapter. Refer to the "Editing the channel list!" chapter for details.	Automatic search	Automatic software update	First installation (see "Connection and Set-Up", "First installation" chapter)	Common Interface	Start FTP when starting receiver	
	Manual channel search	Software update	Basic settings	HDD Management	4GB limit	
	Channel search with service ID	Update via USB	User-defined settings	Ethernet Settings	Start UPnP at booting	
		Load factory settings	Antenna & satellites			

Main menu - Channel search

After calling up the menu you will see the following display:

You have three different search options:

- Automatic Channel Search
- Manual Channel Search
- Search with service ID

Use the [▲][▼] buttons to select the desired search type and confirm your selection using the [OK] button.

Automatic Channel Search

After calling up the menu you will see the following display:

The [▲][▼] buttons allow you to select different sets of parameters for the search.

Satellite

You can now use the [◀][▶] buttons to select between the individual satellites you have set up, or choose the setting "All". If "All" is selected, all the individual satellites you have set up will be searched for new channels. Make sure your reception system is aligned to this/these selected satellite(s).

Channel Search Mode

Use the [◀][▶] buttons to select the type of channels that are to be searched for. You have three options:

- "free & scrambled"   All channels are searched for
- "only free"   Only free-to-air channels are searched for
- "only scrambled"   Only encrypted channels are searched for

To view encrypted channels you need an appropriate CA (Conditional Access) module and a valid smart card together with a valid subscription to the relevant Pay TV provider.

Network Search

Use the ◄ ► buttons (On/Off) to select whether a network search should be performed. If you set the network search to "Off", only the factory default transponders for the satellite(s) you previously selected will be searched for new as yet unsaved channels. If you set the network search to "On", the transponder network enables additional transponders that have not yet been stored to be located. They are then stored and searched for new channels in the same way as the existing transponders. Once you have made all the settings, use the ▲ ▼ buttons to switch to the "Start search" field and confirm the start of the search using the OK button. The following displays appear (example):

During the search you will see the following display (example):

The new channels found are identified by the suffix "New" (see example screenshot on the right).

Note:
You can cancel the search at any time by pressing the BACK *button.*

TV channels found   Radio channels found

...Search Channels ▸ Automatic Channel Search
▸ **Channel Search**

TV Channels		Radio Channels	
208	RedeRecord NEW	15	DIGITAL+
209	Arirang TV NEW	16	DIGITAL+
210	Al Jazeera International	17	DIGITAL+
211	Extremadura TV	18	DIGITAL+
212	NHK World TV	19	DIGITAL+
213	BFM TV	20	DIGITAL+

▸ **19.2 E ASTRA - 11538MHz - Vertical - 22000 MS/s**

23 % Completed

After completion of the search, you will see the following display (example):

Press the OK button. The new channels found are added at the end of the existing complete list.

...Search Channels ▸ Automatic Channel Search
▸ **Channel Search**

⚠ **Information**

New TV Channels : 7
New Radio Channels : 0

OK Back

▸ 19.2 E ASTRA - 12729MHz - Vertical - 22000 MS/s

100 % Completed

Press the MENU button to return to the TV picture. The new channels can now be selected in the channel list.

Main menu - Channel search

Manual Channel Search

After calling up the menu you will see the following display:

The ▲ ▼ buttons allow you to select different sets of parameters for the search.

In this menu you can selectively search a transponder for the new channels.

Satellite

Use the ◄ ► buttons to select the satellite on which the transponder you want to search is located. By pressing the **OK** button at this point you can view a list of the installed satellites. Use the ⬚ buttons to select the satellite you want and confirm your selection with the **OK** button. Make sure your reception system is aligned to this/these selected satellite(s). If you want to search several transponders on a satellite, you should start an automatic search of the transmitting satellite.

Transponder Frequency

Use the ◄ ► buttons (transponder frequency already saved) or the keypad (transponder frequency not yet saved) to select the transponder frequency on which the channel being sought is transmitted. By pressing the **OK** button at this point you can view a list of the saved transponders for the selected satellite. Use the ⬚ buttons to select the transponder you want and confirm your selection with the **OK** button. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality of the selected transponder.

The "DVB Type", "FEC", "Polarization" and "Symbol Rate" options only need to be specified if the transponder has yet to be saved.

DVB type

Press the ◄ ► buttons to select whether you want to search for standard channels (DVB-S (SD)) or for HDTV channels (DVB-S2 (HDTV)).

FEC

Press the ◄ ► buttons to select the applicable error rate (Viterbi rate). When searching for DVB S(SD) transponders you need not state the error rate. Instead a fixed display of "Automatic" appears. When searching for DVB S2(HD) transponders you must state the correct error rate. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarization

Press the ◄ ► buttons to select the correct polarization (horizontal or vertical).

Symbol Rate

Use the numeric keypad to enter the relevant symbol rate.

Channel search mode

Use the ◄ ► buttons to select the type of channels that are to be searched for. You have three options:

- "free & scrambled"   All channels are searched for
- "only free"   Only free-to-air channels are searched for
- "only scrambled"   Only encrypted channels are searched for

To view encrypted channels you need an appropriate CA (Conditional Access) module and a valid smart card together with a valid subscription to the relevant Pay TV provider.
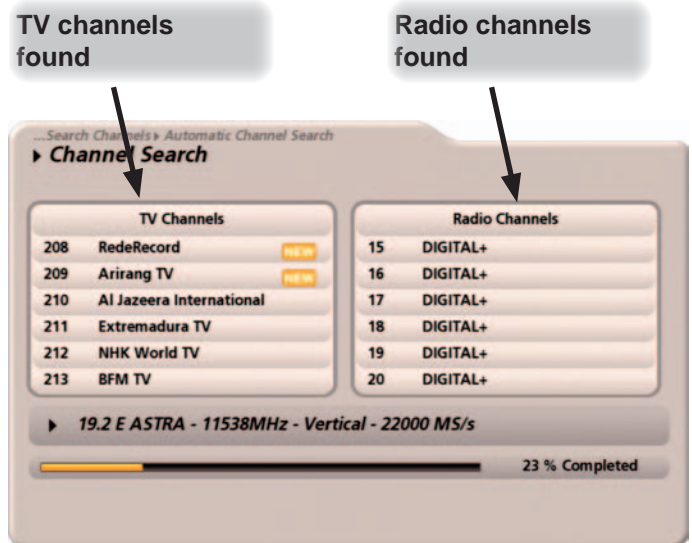
Network Search

Use the ◄ ► buttons (On/Off) to select whether a network search should be performed. If you set the network search to "Off", only the factory default transponders for the satellite(s) you previously selected will be searched for new as yet unsaved channels. If you set the network search to "On", the transponder network enables additional transponders that have not yet been stored to be located. They are then stored and searched for new channels in the same way as the existing transponders. Once you have made all the settings, use the ▲ ▼ buttons to switch to the "Start search" field and confirm the start of the search using the OK button.

Search with service ID

After calling up the menu you will see the following display:

The ▲ ▼ buttons allow you to select different sets of parameters for the search.
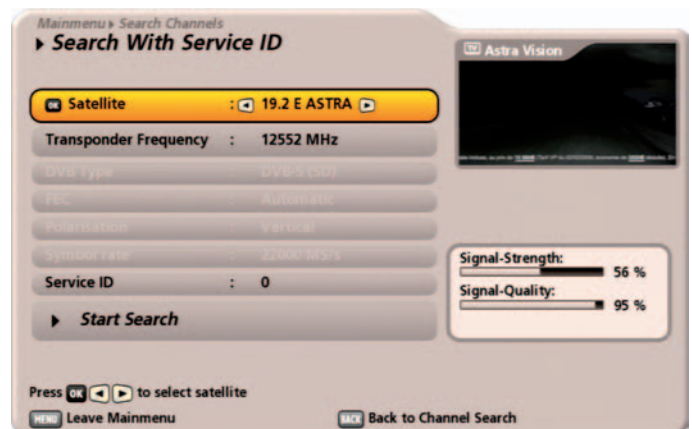
Satellite

Use the ◄ ► buttons to select the satellite that is transmitting the channels to be searched. By pressing the OK button at this point you can view a list of the installed satellites. Use the buttons to select the satellite you want and confirm your selection with the OK button. Make sure your reception system is aligned to this/these selected satellite(s).

Main menu - Channel search

Transponder Frequency

Use the ◀ ▶ buttons (transponder frequency already saved) or the keypad (transponder frequency not yet saved) to select the transponder frequency on which the channel being sought is transmitted. By pressing the OK button at this point you can view a list of the saved transponders for the selected satellite. Use the ✛ buttons to select the transponder you want and confirm your selection with the OK button. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality of the selected transponder.

The "DVB Type", "FEC", "Polarization" and "Symbol Rate" options only need to be specified if the transponder has yet to be saved.

DVB type

Press the ◀ ▶ buttons to select whether you want to search for standard channels (DVB-S (SD)) or for HDTV channels (DVB-S2 (HDTV)).

FEC

Press the ◀ ▶ buttons to select the applicable error rate (Viterbi rate). When searching for DVB S(SD) transponders you need not state the error rate. Instead a fixed display of "Automatic" appears. When searching for DVB S2(HD) transponders you must state the correct error rate. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarization

Press the ◀ ▶ buttons to select the correct polarization (horizontal or vertical).

Symbol Rate

Use the ◀ ▶ button or the numeric keypad to enter the related symbol rate.

Service ID

Use the numeric keypad to enter the service ID of the channel to be searched for.

Once you have made all the settings, use the ▲ ▼ buttons to switch to the "Start search" field and confirm the start of the search using the OK button.

Note:

You can cancel the search at any time by pressing the BACK button.

The following displays during and in connection with the search are identical to those for the automatic search.

After calling up the menu you will see the following display:

You can choose between various different menus:

- Automatic Software Update

- Software Update

- Software update by USB

- Factory Reset

In addition, the following information is displayed in the service menu under the "Factory Reset" option:

- Operating software version currently in use on the receiver

- Date of the last update of the channel list

- Date of the last update of the receiver operating software
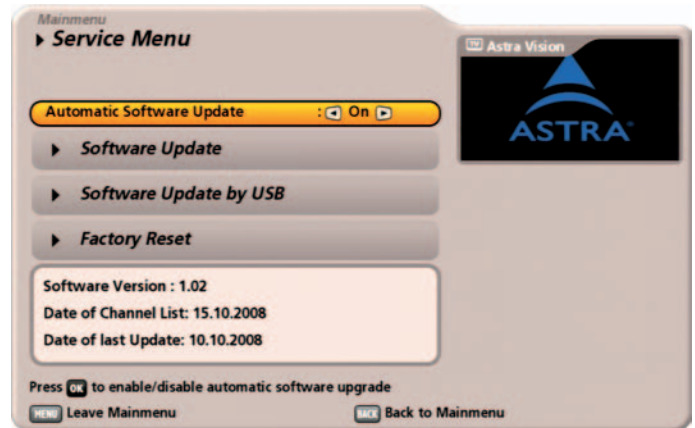
Use the [▲][▼] buttons to select the desired menu and confirm your selection using the [OK] button.

Automatic Software Update

Select the required setting (On/Off) using the [◄][►] buttons.

Setting "Off":

The receiver does not automatically search for new software available every day when updating the *tvtv* data and does not compare the channel list you have stored on the receiver with the delta channel list transmitted. However, you can perform a software update manually at any time, as described under "Software update".

Setting "On":

The receiver automatically searches for new software available every day when updating the *tvtv* data and does compares the channel list you have stored on the receiver with the delta channel list transmitted. Your channel list is **not overwritten, only updated**. For example, if the name or frequency of a channel changes, the old parameters for the affected channel are replaced by the new ones in your channel list on the receiver. The channel is not moved in the channel list. New channels that have not yet been saved in your channel list are added to the end of the list. Channels that are no longer broadcast are deleted.

Note: *The receiver does not make the changes automatically without your approval, they are buffered until the next time the receiver is started.*

Main menu - Service menu

If new software or changes to the channel list are found, you will see the following display the next time you start the UFS 922:

Press the $\boxed{\text{OK}}$ button to perform the software update.
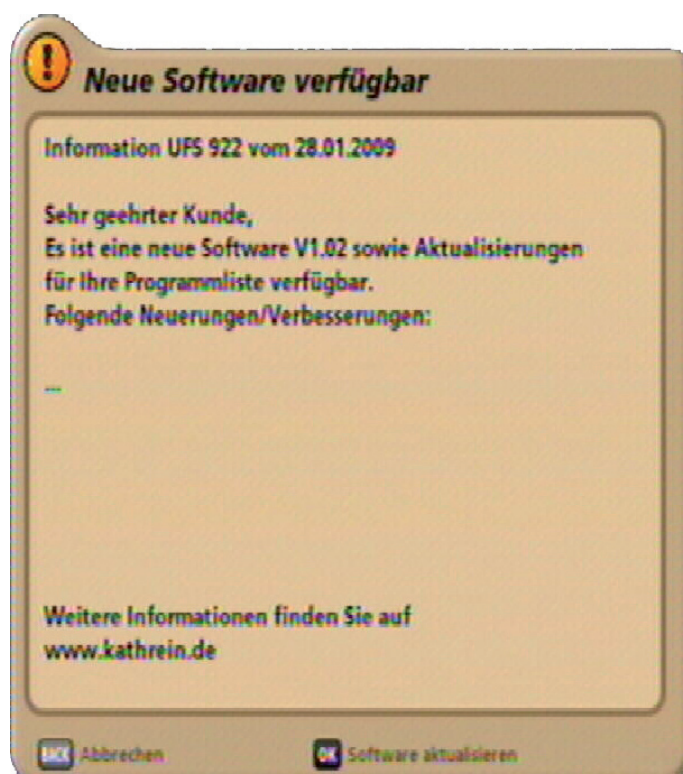
After the software update, you will see the following display (only if there are any changes to the delta channel list):

Press the $\boxed{\text{OK}}$ button to perform the channel list update or

the $\boxed{\text{BACK}}$ button if you do not want to update your channel list.
The channel list is not overwritten!
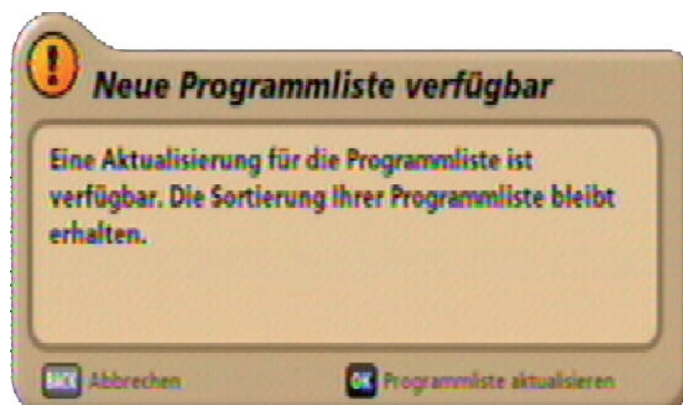
The receiver saves the new data and then restarts.

⚠️	**Do not switch off the receiver during this process; wait until the automatic restart has been completed. Otherwise, the software on the unit could be damaged!**
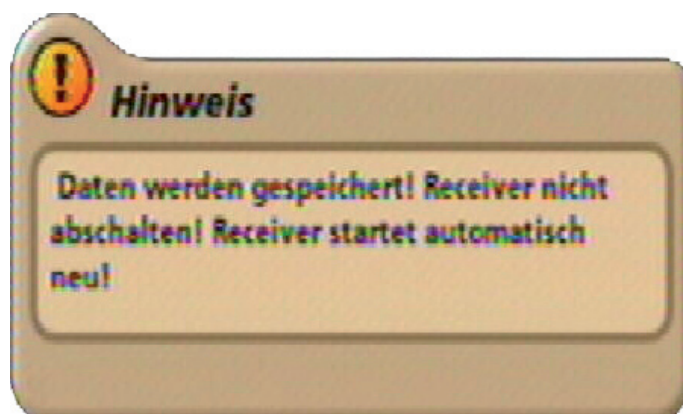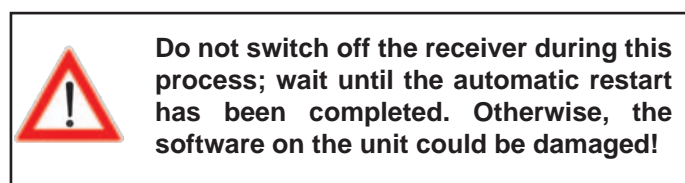
After the restart, the update is complete.

Software Update

After calling up the menu you will first see the following display:

> ⚠️ **All available s modules/components for your receiver will be loaded and then displayed.**
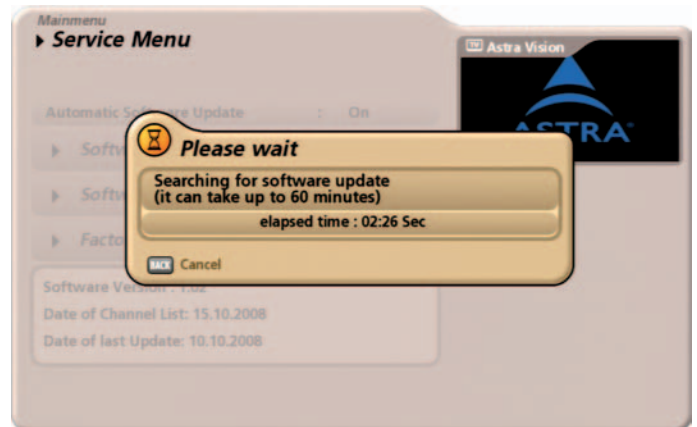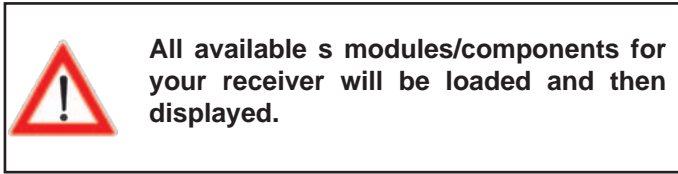
The loading process can take up to 60 minutes

The following display then appears:

Use the ▲▼ buttons to select the parameters to be updated during the update procedure.

Show Infotext:

Press the OK button to display the info text for the available downloads. These indicate the main features of the new operating software, based on which you can decide whether you want to install the new software on your receiver.
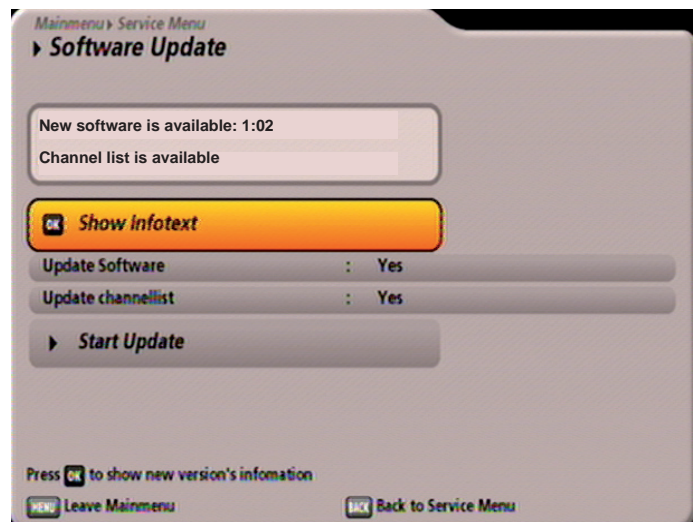
Update software:

Select "Yes" here if you want to install new software; select "No" if you are satisfied with your old software version and the changes in the new software are not relevant to you.

Updating the channel list:

Select "Yes" here if you want to install the new channel list, or "No" if you want to retain your old channel list. Prior to this you can however also save your old channel list using the "Software Update by USB", "Save Channel List to USB" menu, so that if you do not like the new channel list you can revert back to the old one.

If a new channel list is loaded, this will be automatically regenerated after each factory reset (Restore Factory Default settings) (see "Service menu", "Factory Reset", "Reset Channel List").

Once you have made all the settings for updating your receiver, switch to the "Start Update" field and press the OK button. The receiver will now automatically start updating the components you selected.

Main menu - Service menu

Once the update is complete, the receiver is re-initialised and starts operation again. Never turn off the receiver during the update process, as otherwise you could lose the entire software. You would then need to re-install it in a workshop or using a PC and network cable. You can use the Service menu to check whether the new software has been installed.

⚠️ **Follow all on-screen instructions!**

Check the time setting following a software update!

**You can also download the updates from the Internet. The address is: http://www.kathrein.de
You will find the software at "Service" → "Software and Download" → "Receiver" → "UFS 922"**

These updates can be performed via the receiver's USB ports (see "Service menu", "Update via the USB" or "Operation from the front panel")

Update via USB

After calling up the menu you will see the following display:

The individual functions are selected using the ▲ ▼ buttons and started using the [OK] button.

⚠️ **A pre-requirement for the update via a USB device is an empty USB device (such as a USB stick), formatted as FAT32, containing only the operating software or channel list to be loaded. It is essential that the operating software to be loaded is stored on the USB device under the following directory structure:**   **Main folder:**   **kathrein**
   Subfolder: └   **ufs922**

**You can also download the updates from the Internet. The address is: http://www.kathrein.de
You will find the software at "Service" → "Software and Download" → "Receiver" → "UFS 922"**

Updating software

First connect your USB device (with the new operating software) to the receiver, using a free USB port on the receiver.

Then select the "Software update" field and confirm the start of the update by pressing the [OK] button. The receiver will ask you to confirm that you are sure you want to update the operating software Press the [OK] button to confirm the displayed message. The receiver now automatically performs the update of the operating software.

Once the update is complete, the receiver is re-initialised and starts operation again. Never turn off the receiver during the update process, as otherwise you could lose the entire software. You would then need to re-install it in a workshop or using a PC. You can use the Service menu to check whether the new software has been installed.

⚠️ **Follow all on-screen instructions!**

Check the time setting following a software update!

Update channel lists

The method for updating the channel list via USB is exactly the same as that used for updating the software: defaultchannel.xml).

Save the channel list on a USB device

The receiver here offers you the option of saving to a USB device the channel list you are currently using, so that you can recover it later if required.
First connect your USB device to the receiver, using a free USB port on the receiver. Then select the "Save Channel

List to USB" field and confirm the start of saving by pressing the $\boxed{OK}$ button. During the saving process you will see the "Update via USB" menu; however you cannot navigate within this menu until the save process has been completed.

The function "Update channel lists" allows you to reload the saved channel list to the receiver at a later date, should you so require.

Restore Factory Default Settings

After calling up the menu you will first see the following display:

You can here restore the channel list and the installation settings to the factory settings. You can use

the $\boxed{\blacktriangle}\boxed{\blacktriangledown}$ buttons to select the components to be restored to their factory settings. In each case use the

$\boxed{\blacktriangleleft}\boxed{\blacktriangleright}$ buttons to select "Yes or No".
In addition you can select whether after the restoration the first installation should automatically be started, as for the initial set-up.

Once you have made all the settings, use the $\boxed{\blacktriangle}\boxed{\blacktriangledown}$ buttons to switch to the "Start Reset" field and confirm the start

using the $\boxed{OK}$ button. The components you selected will now be reset to the status at the delivery of the unit.

Main menu - Settings

After calling up the menu you will see the following display:

You can choose between various different menus:

- First Installation
- Basic Settings
- User Defined Settings
- Antenna & Satellite

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.
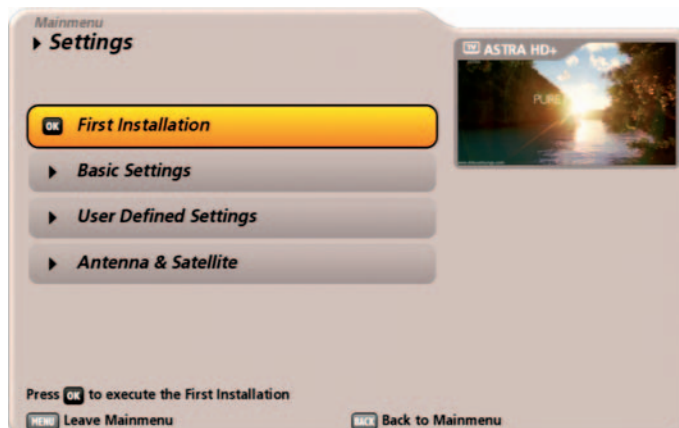
First installation

For this see the chapters "Connection and Set-Up", "First installation".

Basic settings

After calling up the menu you will see the following display:

You can choose between various different menus:

- Video Settings
- Audio Settings
- Time Setting
- Remote Control Code
- Fan Control

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.
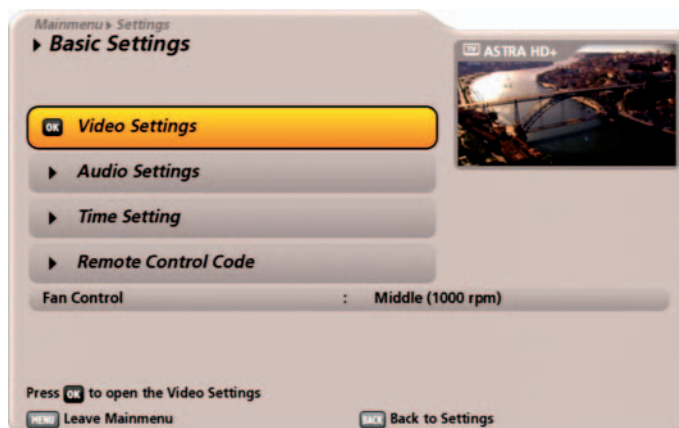
TV Settings

After calling up the menu you will see the following display (depending on the selected signal output):

For output of the TV picture via the HDMI output:
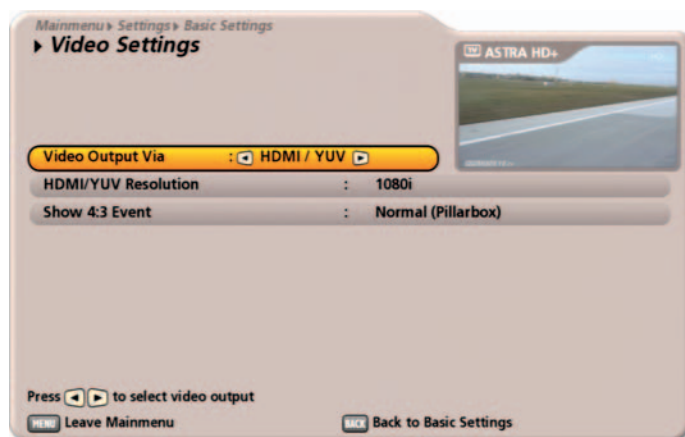
For output of the TV picture via the Scart-TV output:

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons. **When doing this, refer to the operating instructions for your TV set!**

Video Output Via

Select here the connection on the receiver to which you have connected your TV set. Either

HDMI/YUV (see also note on the next page)   or   **Scart**

HDMI/YUV Resolution

Here you can select the picture resolution that will be sent to the TV set. Either

- 1080i (resolution 1920 x 1080, half-screen images)
- 576p (resolution 720 x 576, full-screen images)
- 720p (resolution 1280 x 720, full-screen images) or
- Automatic

Show 4:3 Event

Here you can select the type of screen display mode for 4:3 broadcasts on a 16:9 TV set. Either

- Normal (Pillar Box)
- Stretched (Full Screen) or
- Zoomed in (Pan & Scan)

TV aspect ratio

Select here the picture format for your TV set. Either

- 4:3 or
- 16:9

Picture format

Select here the type of screen display, *depending on the setting of your TV format*. Either

- Pan & Scan (only for "4:3")
- Letterbox (only for "4:3")
- Automatic (only for "16:9") or
- Always 16:9 (only for "16:9")

Important instruction for picture output using "YUV":

⚠ **The "YUV" output option can only be used if "RGB" is not selected as the output signal for the TV Scart socket! In this case, select "Y/C" or "CVBS" as the output signal for the TV Scart socket.**

TV-Scart-Output

Select the type of video signal to be output at the TV Scart socket here. Select the signal that your TV set can process. Either

- RGB (Red/Green/Blue signal)
- Y/C (S-Video signal (luminance/chrominance), or
- CVBS (Colour Video Baseband Signal)

VCR-Scart-Output

Select the type of video signal to be output at the VCR Scart socket here. Select the signal that your recorder can process. Either

- Y/C (S-Video signal, luminance/chrominance)
- CVBS (Colour Video Baseband Signal)

Television System

Select here the TV standard applicable for your region/country. Either

- PAL (e.g. for Germany and Austria) or
- NTSC (e.g. for USA and Canada)

Audio Settings

After calling up the menu you will see the following display:

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons.

Preferred Audio Language

Select here your preferred audio language. You can choose between the following languages:

German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish or Russian.

Preferred Subtitle Language

Select here your preferred subtitles language. You can choose between the following languages:

Deactivated (off), German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish or Russian.

Audio Format via HDMI

Here you can select the type of audio signal that is transmitted by the HDMI interface together with the TV picture. Either

- Decoded PCM or
- S/PDIF format

Auto Dolby Digital Output

Here you can select whether the receiver should automatically output the Dolby Digital signal (if this is transmitted). Either

- On or
- Off

Time Setting

After calling up the menu you will see the following display:

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons.

Time Mode

Here you can select whether the time information should be obtained by the receiver automatically from a specific channel that you select or whether the time information should be input manually. Either

- Automatic or
- Manual

Local Time Offset (UTC)

Here you can select the local time offset to UTC (formerly GMT) (e.g. + 1 hour for Germany). You can set the offset in 30 minute steps. The maximum offset is 11 hours and 30 minutes (+ and -).

Main menu - Settings

Clock Change (Summer Time)

Here you can select whether the receiver should automatically change over to and from summer and winter time. The "Manual" setting only makes sense if you also selected "Manual" for the selection item "Time setup", since otherwise the time information is obtained automatically by the receiver. Either

- Automatic or
- Manual

Time Setup Channel (only works if the time setup is set to "Automatic")

Here you can select the channel from which the receiver should obtain the time information. Press the [OK] button to call up a channel list from which you can select the channel you want using the cursor (⬤) buttons. Confirm your selection with the [OK] button.

Setup Time Now

Press the [OK] button. Depending on the desired time setting (Automatic/Manual) the following display then appears:
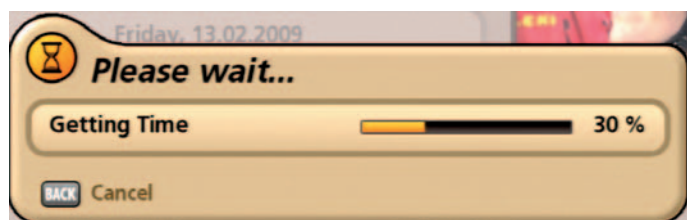
<table>
<tr><th>Automatic</th><th>Manual</th></tr>
</table>
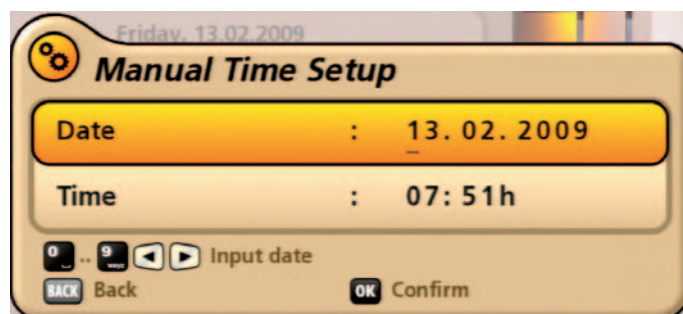
You need not perform any further input, the receiver will automatically update the date and time.

Use the numeric keypad or the ◀▶ buttons to input the correct date. Then use the ▲▼ buttons to switch to the "Time" field and use the numeric keypad or the ◀▶ buttons to input the correct time. Then use the [OK] button to confirm your input.

Setting the remote control code

After calling up the menu you will see the following display:

You can use this function to allow you to operate several receivers (e.g. four UFS 922 units) using the same remote control. You can assign each receiver its own remote control code. This pre-supposes that the receiver was supplied with the RC 670 remote control (e.g. UFS 922) or with the RC 660 remote control (e.g. UFS 910).
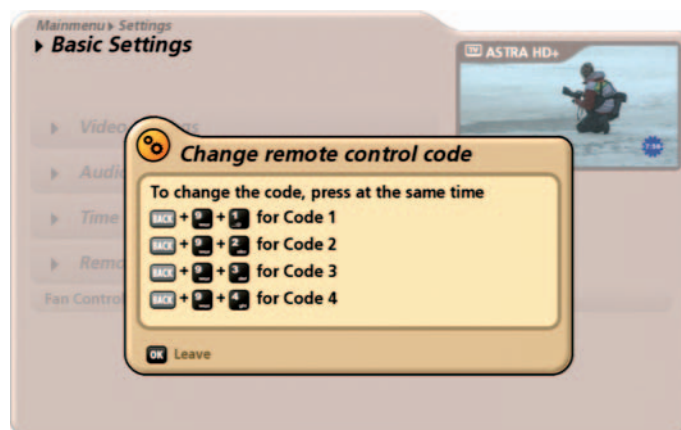
You can now use the remote control for your receiver to set a new remote control code (the remote control code 1 is set as standard). Simultaneously press buttons:

- [BACK] + [9 wxyz] + [1 .,:@] for remote control code 1

- [BACK] + [9 wxyz] + [2 abc] for remote control code 2

- [BACK] + [9 wxyz] + [3 def] for remote control code 3

- [BACK] + [9 wxyz] + [4 ghi] for remote control code 4

Then press the [OK] button. If the receiver display does not close down, the receiver and the remote control are not set to the same remote control code. Check your settings again.

To set the remote control in future for whatever remote control code is required, proceed as follows:

- [BACK] + [1 .,:@] for remote control code 1

- [BACK] + [2 abc] for remote control code 2

- [BACK] + [3 def] for remote control code 3

- [BACK] + [4 ghi] for remote control code 4

⚠️ **If you have a further Kathrein receiver in use that was supplied with the RC 660 remote control, you can use the UFS 922 remote control to operate that other receiver also. On the UFS 922 remote control, the codes for remotely controlling the RC 660 begin with "5":**

[BACK] + [5 jkl] = **remote control code 1 for the RC 660,** [BACK] + [6 mno] = **remote control code 2 for the RC 660,** [BACK] + [7 pqrs] = **remote control code 3 for the RC 660 and** [BACK] + [8 tuv] = **remote control code 4 for the RC 660**

Main menu - Settings

Fan Settings

Use the ◀ ▶ buttons to set the desired fan speed (revolutions per minute). Either

-     Fast (1500 rpm)
-     Medium (1000 rpm)
-     Slow (500 rpm)
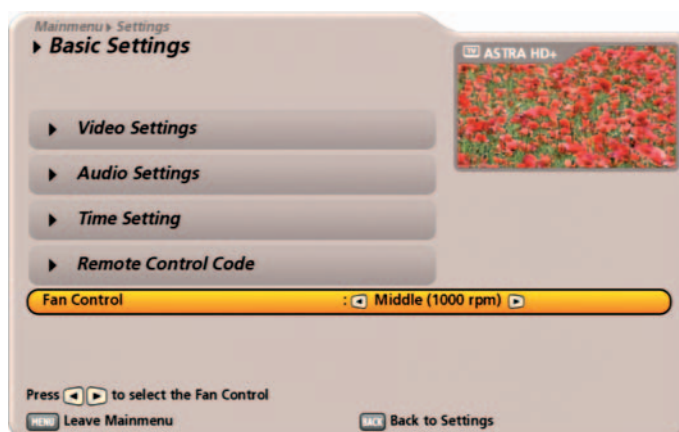
> ⚠ **The fan speed should be adjusted to the temperature changes in the receiver.**

User Defined Settings

After calling up the menu you will see the following display:

You can choose between various different menus:

- Parental Lock
- Customise Screen Menu
- EPG Setup
- PVR Setup

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.
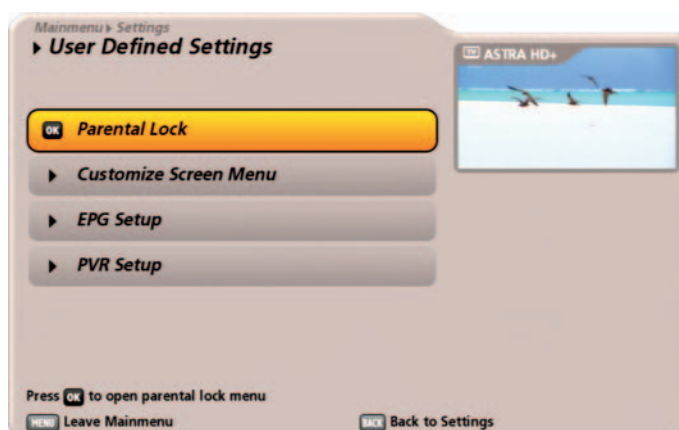
Parental Lock

After calling up the menu you will see the following display:

In order to access this menu, you must input the four-digit PIN code (factory setting: "0000").

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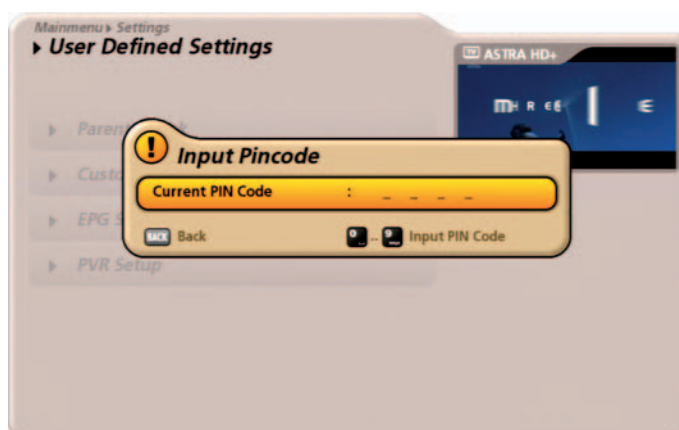
The following display then appears:

In this menu you can set various restrictions/parental controls.

The individual items are selected using the ▲ ▼ buttons. The changes to the current settings can be made using

the ◄ ► buttons or the numeric keypad.
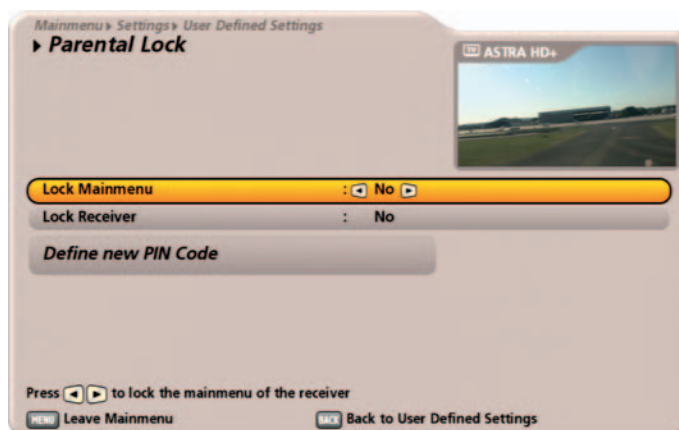
Lock Mainmenu

Select here whether the main menu should be locked. If the main menu is locked, the four-digit PIN code will be requested when it is called up. Without the four-digit PIN code (factory setting: "0000"), the main menu cannot be viewed and no changes can be made to the device settings. Either

- "Yes" or

- "No"

Lock Receiver

Select here whether the receiver should be locked. If the receiver is locked, the four-digit PIN code will be requested when it is switched on. Without the four-digit PIN code (factory setting: "0000"), the receiver cannot be operated. Either

- "Yes" or

- "No"

Define new PIN code

Confirm the selection with the OK button. The following display appears:

Use the numeric keypad to input your new four-digit PIN code. When the fourth digit has been input, the receiver will automatically to the next line "Confirm PIN code". For security you must now repeat the input of the four-digit PIN code.

Your receiver PIN code has now been changed.
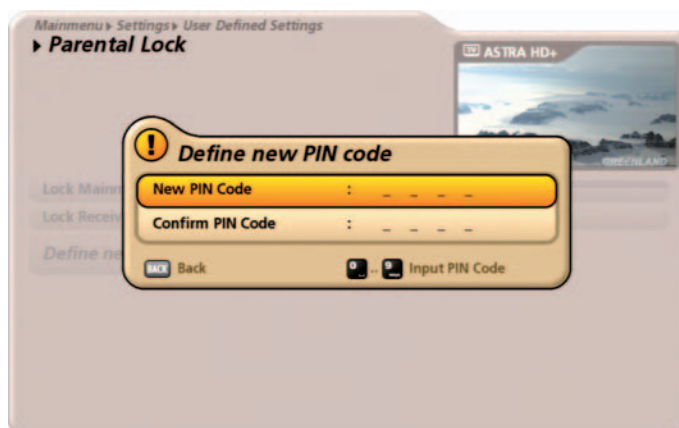
> **Keep your four-digit PIN code in a safe place, so that you always have access to your channels should you ever forget it.**
>
> **If you have forgotten your password, you must contact your dealer, who will be able to unlock your receiver for you.**

Main menu - Settings

Customize Screen Menu

After calling up the menu you will see the following display:

The individual items are selected using the [▲] [▼] buttons. The changes to the current settings can be made

using the [◄] [►] buttons or the numeric keypad.

Sleep Timer

You can use the "Sleep Timer" function to set an inactive time period after which the receiver will automatically

switch into "Stand-by" mode. To do this, use the [◄] [►] buttons to select "On". Exit the menu using the [MENU] button.

Now press the [on/off] button. The receiver now displays a window, in which you can use the [◄] [►] buttons to select the desired inactive time period for the receiver. After this the receiver will run quite normally, then at the expiry of the inactive time period that was input, automatically switch into "Stand-by" mode.

If you do not start inputting the inactive time period within five seconds of the window appearing, the receiver will automatically switch to "Stand-by" mode.

Channel Banner Duration (channel information)

Select here how long the channel information should be displayed after a change of channel. The options available are 1, 2, 3, 4, 5 or 6 seconds.

Playback Banner Duration (playback information)

Select here how long the playback information should be displayed after a the start of playback. The options available are 1, 2, 3, 4, 5 or 6 seconds.

Display Volume Bar

Select here whether on changing the volume using the receiver remote control the volume bar should be displayed on the TV screen (selection: "On") or should not be displayed (selection: "Off").

Front Display Brightness

Set the front display brightness here. Select the most comfortable setting for your ambient lighting. Your available options are:

- Bright
- Medium
- Dull or
- Off (display is not switched on/lit during operation)

Front Front Display in Standby

Select here whether the front display is illuminated in standby mode. **To achieve the rated standby power consumption of less than one Watt, this setting must be "Off".**

EPG Setup

After calling up the menu you will see the following display:

The individual items are selected using the [▲] [▼] buttons. Changes to the current settings can be made

using the [◄] [►] buttons or the numeric keypad.
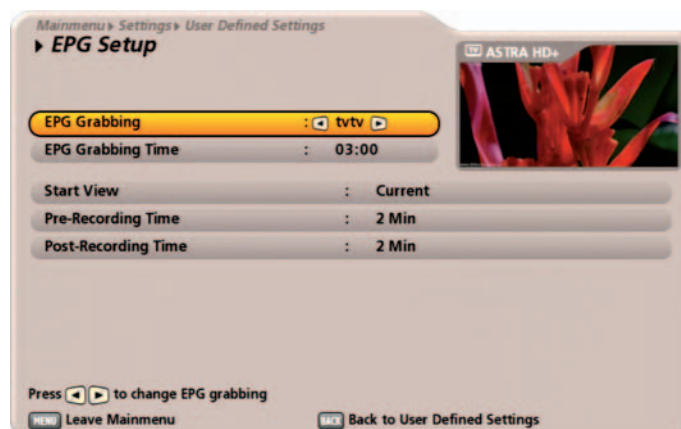
EPG Grabbing

Select here the data with which the EPG should be updated/filled. In order to exploit the full capability of the Premium tvtv EPG, this setting must be "tvtv". If the setting is "Off", the EPG will be filled with the conventional SI data broadcast by the transmitters. These are less comprehensive than the tvtv EPG data and also do not extend to 14 days ahead.

EPG Grabbing Time

Select here the time at which the receiver's EPG data should be updated. Since the update can take up to 45 minutes it is recommended that the update time should be during the night when the receiver is not being used. The receiver (which must be in standby mode) switches itself on out of standby mode and updates the EPG data. After updating the data, the receiver switches back to the standby mode. Scheduled recordings do not affect this; the receiver then carries out the update automatically later when recording is finished.

Start View (EPG)

Select here the view that you generally want to see at the start of the EPG. You can choose between the "Current" view and the "Coming up (programme listings)" view.

Pre-Recording Time

Select here the number of minutes before the time set in the EPG at which the recording should start. You can choose a value between one minute and 30 minutes, in one minute increments. The recording will start that number of minutes before the due time. This allows a contingency for small variations in transmission times. Surplus time in a recording can be deleted later, as described in the chapter "Recording archive", using the function "Recordings: cut, split, copy".

Post-Recording Time

Select here the number of minutes after the time set in the EPG for which the recording should run on. You can choose a value between one minute and 30 minutes, in one minute increments. The recording will stop that number of minutes after the scheduled time. This allows a contingency for small variations in transmission times. Surplus time in a recording can be deleted later, as described in the chapter "Recording archive", using the function "Recordings: cut, split, copy".

Main menu - Settings

Recording settings

After calling up the menu you will see the following display:

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons.
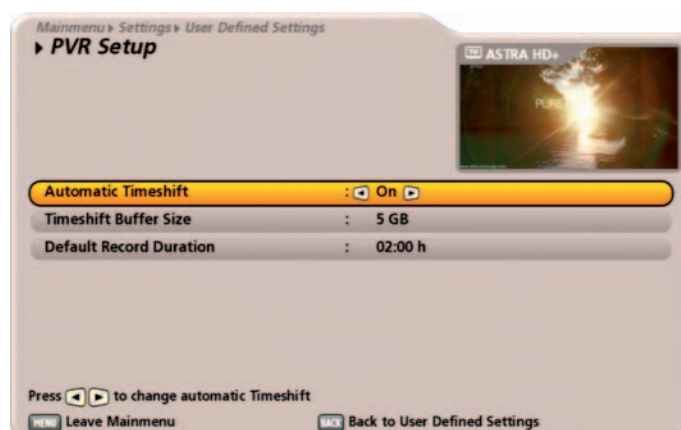
Automatic Timeshift

Select here whether automatic time-shifting is enabled or disabled. If this is set to "On", the receiver automatically (in the background) starts recording the programme you are viewing as soon as you switch to the channel.
Then, in manual record mode, you can decide whether to record the programme from the current time or from the time you switched to the channel. The advantage of this is that you do not lose the part of the programme you were watching before you decided to record it! When you select "Off" you can only record the programme as from the point you press Record, and lose the portion of the programme before you started recording. For this see also the chapters "Basic operation", "Automatic Timeshift".

Timeshift Buffer Size

Select here the size of the background buffer the receiver makes available for time-shift recording. You have the following selection options:

- 5 GB   (sufficient for approx. 1 hour of HDTV recording)

- 10 GB   (sufficient for approx. 2 hours of HDTV recording)

- 15 GB   (sufficient for approx. 3 hours of HDTV recording) or

- 20 GB   (sufficient for approx. 4 hours of HDTV recording)

> ⚠ **The value selected for the timeshift memory automatically reduces the available memory capacity for recordings in the recording archive.**

Default Record Duration

Select here the default record duration. If the channel information gives no start time and end time for the programme that is to be recorded, the receiver will automatically use the default record duration that is set here. You can choose between 30 minutes and 3 hours, in 30 minute increments.

Antenna & satellites (settings)

After calling up the menu you will see the following display:

You can choose between various different menus:

- Sat Finder
- Tuner Configuration
- Edit Satellites
- Edit Transponders

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.

Sat Finder

After calling up the menu you will see the following display:

If you do not have a meter for adjusting your reflector, you can use the sat finder as an alignment aid. However the sat-finder is not a complete substitute for a meter.

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.
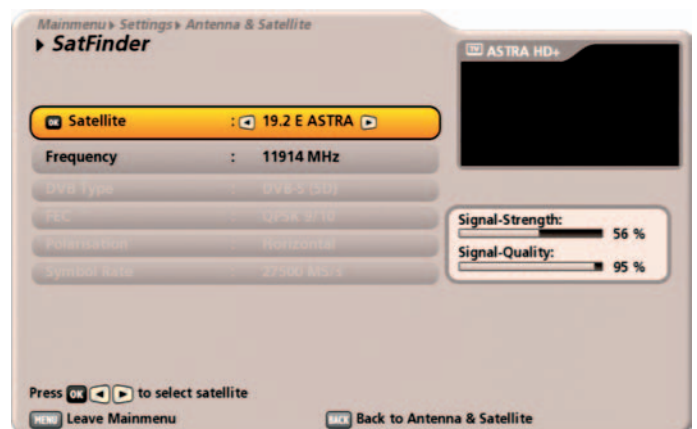
Satellite

Select the satellite on which the transponder to be tested is located. Make sure your reception system is aligned to this/these selected satellite(s).

Frequency

Use the ◄ ► buttons (transponder frequency already saved) or the keypad (transponder frequency not yet saved) to select the transponder frequency to be tested. At the bottom right of the screen display, the receiver shows the current signal strength and signal quality of the selected transponder.

The "DVB Type", "FEC", "Polarization" and "Symbol Rate" options only need to be specified if the transponder has yet to be saved.

DVB type

Select here whether standard channels (DVB-S (SD)) or HDTV channels (DVB-S2 (HDTV)) should be received from the desired transponder.

Main menu - Settings

FEC

Select the applicable error rate (Viterbi rate). You need not state the error rate for the DVB S(SD) transponders. Instead a fixed display of "Automatic" appears. You must state the correct error rate for the DVB S2(HD) transponders. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarization

Select the correct polarization (horizontal or vertical).

Symbol Rate

Use the numeric keypad to enter the related symbol rate.

Tuner Configuration

Since the tuner configuration is very detailed, we have dedicated it a chapter all to itself. For this see the chapter "Tuner Configuration".

Edit Satellites

After calling up the menu you will see the following display:

The individual items are selected using the [▲][▼] buttons. If you require to access submenus, they can be called up using the [OK] button. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

| The settings of the satellites should be performed by a specialist engineer for the respective reception system. Only make these settings yourself if you are fully familiar with the particulars of your reception system. |

Satellite Name

Select here the satellite that you want to edit/delete, or whose name you want to change. By pressing the [OK] button at this point you can view a list of the satellites saved in the receiver. Use the [✛] buttons to select the satellite you want and confirm your selection with the [OK] button.

Frequency

Select here the desired transponder. By pressing the [OK] button at this point you can view a list of the transponders saved in the receiver for this satellite. Use the ⬍⬌ buttons to select the transponder you want and confirm your selection with the [OK] button.

Symbol Rate

The symbol rate is positively assigned to each saved transponder, and cannot be changed.

Polarization

The polarization is positively assigned to each saved transponder, and cannot be changed.

Longitude

A fixed longitude is assigned to each saved satellite, and cannot be changed.

Create new satellite

By pressing the [OK] button you can call up the input screen to save a new satellite. The following display appears:

Satellite Name:

Use the keypad to enter a name for the new satellite. Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries".

Enter Longitude:

Then switch to the "Longitude" input field and use the numeric keypad to enter the desired longitude. Use the ◀▶ buttons to choose between E (East) and W (West).

Band:

Use the ◀▶ buttons to select the correct band for the new satellite.

When all settings have been made, press the [OK] button to save the new satellite.

Main menu - Settings

Delete Satellites

Press the [OK] button to delete the currently selected satellite. As a security feature you are asked to confirm again by pressing the [OK] button that you really want to delete the satellite.
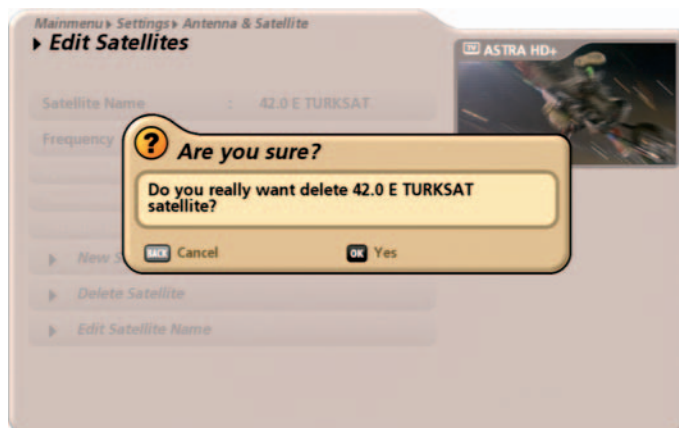
Edit Satellite Name

By pressing the [OK] button you can call up the input screen which allows you to change the name of the currently selected satellite. Use the keypad to enter a new name for the satellite. Alphanumeric characters are input as described in "Operating instructions", "Alphanumeric entries".

Edit Transponders

After calling up the menu you will see the following display:

The individual items are selected using the [▲] [▼] buttons. If you need to access submenus, they can be called up using the [OK] button. Changes to the current settings can be made using the [◄] [►] buttons or the numeric keypad.

> ⚠️ **The settings for transponders should be performed by a specialist engineer for the respective reception system. Only make these settings yourself if you are fully familiar with the particulars of your reception system.**

Satellite Name

Select here the satellite for which you want to edit/delete the transponder, or for which you want to add a new transponder. By pressing the [OK] button at this point you can view a list of the satellites saved in the receiver. Use the buttons to select the satellite you want and confirm your selection with the [OK] button.

Frequency

Select here the transponder to be edited/deleted. By pressing the [OK] button at this point you can view a list of the transponders saved in the receiver for this satellite. Use the buttons to select the transponder you want and confirm your selection with the [OK] button.

Main menu - Settings

Symbol Rate

The symbol rate is positively assigned to each saved transponder, and cannot be changed.

Polarization

The polarization is positively assigned to each saved transponder, and cannot be changed.

Edit transponders

By pressing the [OK] button you can call up the input screen which allows you to edit/change the settings of the previously selected transponder.

Frequency:

Here you are shown the selected transponder to be edited. The transponder frequency cannot be changed.

DVB Type:

Select here whether the selected transponder is to receive standard channels (DVB-S (SD)) or HDTV channels (DVB-S2 (HD)).

Error rate:

You only need to input the error rate if this is a transponder for reception of HDTV channels (DVB-S2 (HD)). You can choose between the following error rates: QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarization:

Select here the applicable polarization for the selected transponder. Either "Horizontal" or "Vertical".

Symbol Rate:

Use the numeric keypad to enter the related symbol rate.

When all settings have been made, press the [OK] button to save the changes.

Add a new transponder

By pressing the `OK` button you can call up the input screen to save a new transponder. The following display appears:

Frequency:

Use the keypad to enter the transmission frequency for the new transponder.

DVB Type:

Select here whether the selected transponder is to receive standard channels (DVB-S (SD)) or HDTV channels (DVB-S2 (HD)).

Error rate:

FEC

Select the applicable error rate (Viterbi rate). You need not state the error rate for the DVB S(SD) transponders. Instead a fixed display of "Automatic" appears. You must state the correct error rate for the DVB S2(HD) transponders. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarization:

Select here the applicable polarization for the selected transponder. Either "Horizontal" or "Vertical".

Symbol Rate:

Use the numeric keypad to enter the related symbol rate.

When all settings have been made, press the `OK` button to save the new transponder.

Delete transponder

Press the `OK` button to delete the currently selected transponder. As a security feature you are asked to confirm

again by pressing the `OK` button that you really want to delete the transponder.
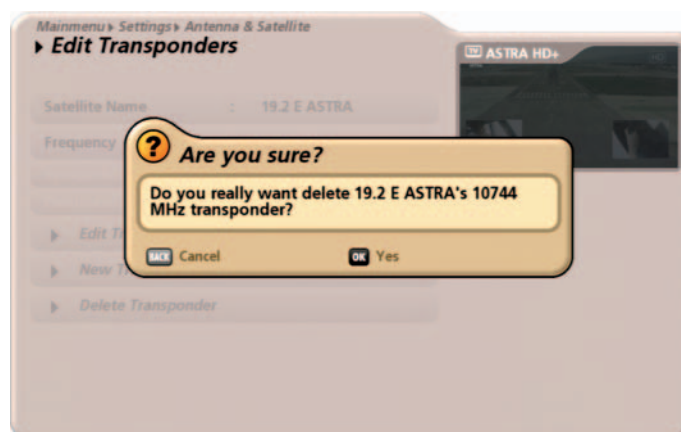
Main menu - Interfaces (CI, hard disk and network)

After calling up the menu you will see the following display:

You can choose between various different menus:

- Common Interface
- HDD Management
- Ethernet Settings

Use the ▲▼ buttons to select the desired menu

and confirm your selection using the OK button.

Common Interface

Important Information

> ⚠️ **Always follow the operating instructions from your Pay-TV provider and the instructions supplied with the Smartcard and the CA module!**
>
> **Smartcards and CA modules are not included with this product!**
>
> **The cards and modules are issued by the respective pay TV providers, and contain the subscriber data and details of the channels for which the subscriber has paid. These channels are always scrambled.**
> **Contact the Pay TV provider if you are interested in subscribing to a particular Pay TV channel.**
>
> **You are responsible for the use of the Smartcard in the CA!**
>
> **The Smartcard sold by the pay TV provider, specific to a particular encryption technology, is inserted into the CA module.**
>
> **Store your card and PIN code securely when not in use!**

Inserting the Smartcard and the CA Module
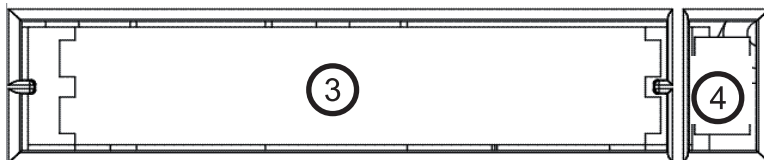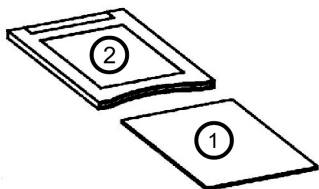
The Common Interface (CI) ③ of the UFS 922 is suitable for the use of two CA (Conditional Access) modules. These two CI slots are located at the bottom left on the front.

The CA module ② receives Smartcard ① (chip contacts pointing upwards and towards socket strip) and is then

inserted into one of the two CI slots ③.
The Smartcard should be inserted into the CA module without exerting excessive force. This also applies to inserting the CA module into the CI slot. Do not use a lot of force and follow the instructions supplied with the Smartcard and the CA module.

To remove the module, press the relevant eject button ④.

You can find out which Conditional Access modules are in the CI slots on the UFS 922 and which Smartcard is in which CA module from the "Mainmenu" under "Interfaces", and the "Common Interface" menu. Confirmation is by pressing the OK button.

The screenshots below depend on the specific module and card, and so are only intended as examples:

Press the OK button to access the menu generated by the CA module:

From this menu, your card and your PIN code allow you to access various channels from your Pay-TV provider. "CryptoWorks" has been selected as an example here. The details can be different for each CA module. Always follow the instructions supplied by your pay TV provider!

Note: *The module displays may be shown in English, even if you have selected German as the menu language, because the menu is generated directly by the module!*

Main menu - Interfaces (CI, hard disk and network)

Multiple decryption

If your CA module is capable of decrypting multiple channels, you can press the ◀▶ buttons to select whether the module should always decrypt only one channel (Off) or multiple channels simultaneously (On). This function is optimised for "AlphaCrypt" modules and may lead to malfunctions with other modules.

If you select "Off", when making an unencrypted recording of an encrypted channel you cannot at the same time view any other encrypted channel through the same CA module and the currently selected transponder.

If you select "On", when recording an encrypted channel you can at the same time view any other encrypted channel through the same CA module and the currently selected transponder. The number of other encrypted channels that you can view depends on the CA module you are using.

Furthermore if you select "On" you can at the same time make two encrypted recordings on the same transponder.

Two-fold CA decryption

Your UFS 922 receiver offers you the facility of viewing channels from the two different CA modules simultaneously.

Note: *This function cannot be guaranteed for all CA module combinations.*

> ⚠ **Information for Conax, SECA, Viaccess and CryptoWorks users:**
> **Note that with monthly activation intervals, the channel providers have different procedures for activating pay TV cards. Activation may therefore be a few days before or after the beginning of a new month. During this activation period, the CA module and card must be in the slot, and the receiver must be turned on a set to the booked Pay TV channel. Follow the instructions from the pay TV provider.**
>
> **If your pay TV card is then still not enabled, we recommend you briefly withdraw the CA module with the card out of the slot, with the receiver switched on, and then re-insert it.**

This information has nothing to do with the properties of the receiver; it is merely intended to assist you.

HDD Management

After calling up the menu you will see the following display:

You have the following selection options:

- Format Record Archive (delete)

- Format Media Archive (delete)

> ⚠️ **Deleted data cannot be restored - it is irrevocably deleted!**
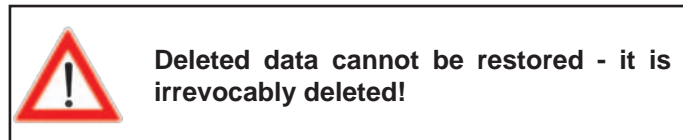
Use the ▲ ▼ buttons to select the desired action.

Format Record Archive

Pressing the **OK** button irrevocably deletes all recordings (TV and radio) currently stored on the hard disk of the receiver. As a security feature you are asked to confirm again by pressing the **OK** button that you really want to delete these files.
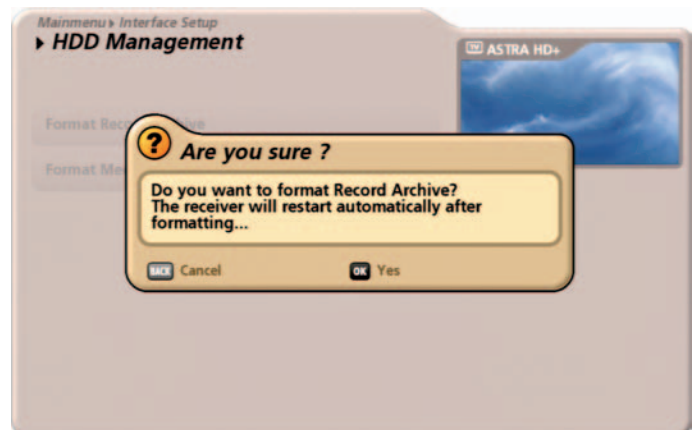
Format Media Archive

Pressing the **OK** button irrevocably deletes all music (MP3) and images (JPEG) files currently stored on the hard disk of the receiver. As a security feature you are asked to confirm again by pressing the **OK** button that you really want to delete these files.

Ethernet Settings

After calling up the menu you will see the following display:

These settings should not be made unless the receiver is linked into a network or is linked to a PC/laptop using a crossed over network cable. The Ethernet interface used in the receiver is a 10/100 base T Ethernet interface.
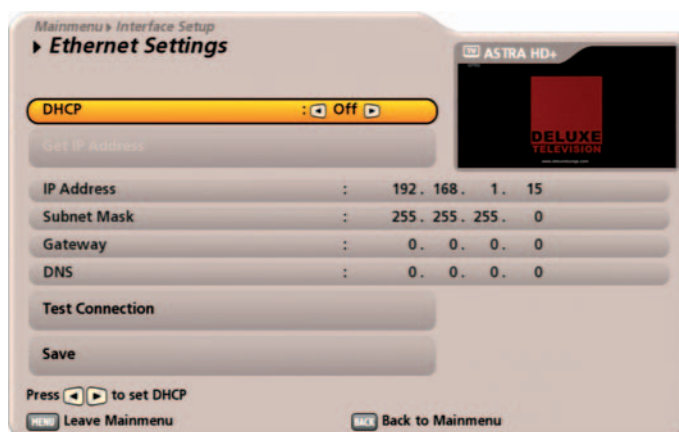
If you want to connect your receiver to a DHCP server, use the ◄ ► buttons to select the "On" setting. If you want to connect your receiver to a PC or laptop, the DHCP setting must be "Off".

DHCP "On" (DHCP server/router)

DHCP "Off" (Hub/Switch/Direct connection to PC or laptop)

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.
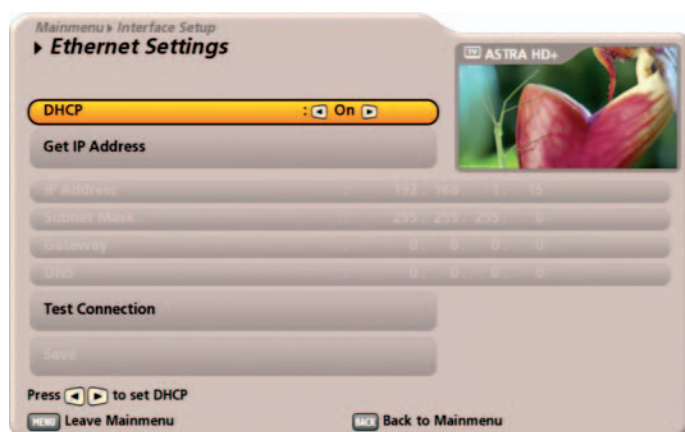
Use the ▲ ▼ buttons to select the "Get IP Address" field and confirm by pressing the OK button.

Your DHCP server now indicates the IP address to the receiver. As soon as the receiver has received its IP address from the DHCP server (and the IP address is displayed),switch to the "Save" field and confirm by pressing the OK button.
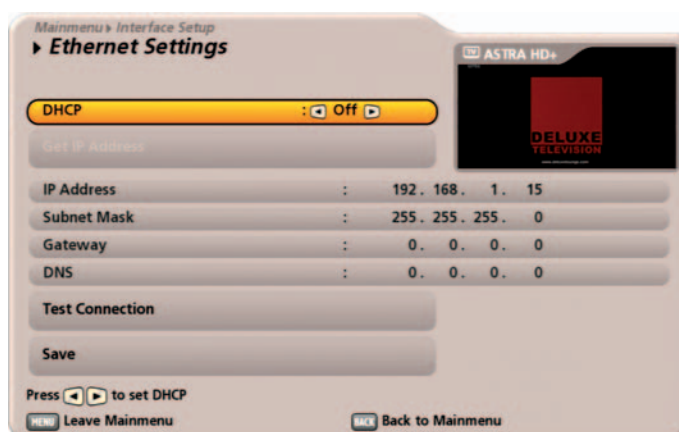
Make the settings for your network as required. When you have completed all the settings, switch back to the "Save" field and press the OK button to confirm.

If with the "DHCP On" setting no connection can be established between the receiver and DHCP server/router, switch the setting to "DHCP Off" and make the setting as described for (DHCP "Off").

Configuration example:

Receiver:

IP address: 192.168.0.11
Subnet Mask: 255.255.255.0

PC/Laptop:

IP address: 192.168.0.10
Subnet Mask: 255.255.255.0

Note: *Refer to our network function connection examples at the end of this manual and the instructions on this subject available on the Internet under "www.kathrein.de" "Service" → "Software and Downloading" → "Receiver" → "UFS 922".*

When connecting the receiver to a suitable FTP program, note the following:

User name: root
Password: 0000

You require both of these components to obtain access to the receiver via your FTP program.

The password is the receiver's PIN code. This is set in the "Parental Control" menu.
The factory setting is "0000".

Main menu - Applications

Any modifications to the receiver software, or the use of applications not provided by Kathrein, will invalidate the warranty! You will have to bear the costs yourself for shipping and repairing any receiver that requires attention due to modifications to the software and use of applications other than those provided by Kathrein!

Therefore you should use exclusively software and applications provided by Kathrein for your receiver. This is available by downloading from the satellite or from the Internet (www.kathrein.de).

This menu displays applications that are installed on your UFS 922. This menu allows you to start and stop these applications. To do this, follow the instructions displayed and the explanations on the menu.

Applications

The Applications menu is called up from the main menu.

First press the [MENU] button and then use the [▲] [▼]

buttons to select "Applications" and press the [OK] button to confirm and call up the menu. The following display appears (example):

Use the [▲] [▼] buttons to select the setting to be changed

and make the changes using the [◄] [►] buttons.
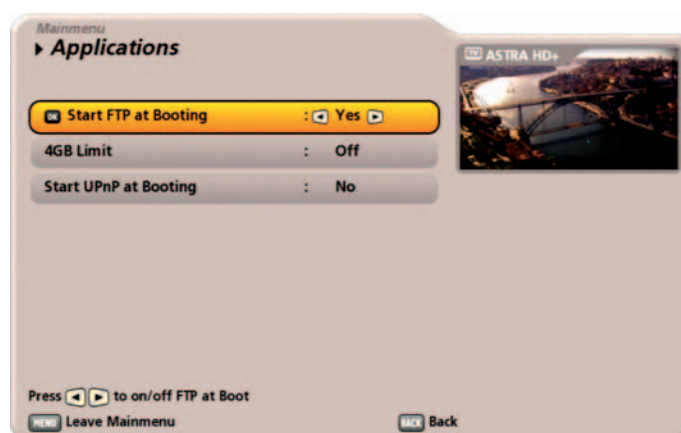
- Start FTP when starting receiver:

  Here, you can select whether "FTP" is to be activated when starting the receiver.

- 4GB limit:

  Here, you can select whether the 4GB limit (required for FAT32 partitions) is to be activated/deactivate.

- Start UPnP server when starting receiver

  Here, you can select whether the receiver's internal "UPnP server" is to be activated when starting the receiver.

Press the [OK] or [BACK] button to exit the settings.

When connecting the receiver to a suitable FTP program, note the following:

User name: root
Password: 0000

You require both of these components to obtain access to the receiver via your FTP program.

The password is the receiver's PIN code. This is set in the "Parental Control" menu.
The factory setting is "0000".

After calling up the menu you will see the following display:

Use the [▲][▼] buttons to select the desired menu language and confirm your selection using the [OK] button.

The following languages are available for selection: German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish and Russian.

The selected menu language is indicated with a check. Press the [BACK] button to return to the main menu.

Tuner Configuration

> ⚠️ **The settings for the tuner configuration should be performed by a specialist engineer for this reception system.**
>
> **You should only perform the tuner configuration yourself if you are fully familiar with the particulars of your reception system.**

Call up the tuner configuration/Tuner configuration general

The main menu is opened by pressing the [MENU] button. Use the [▲][▼] "Settings" buttons and confirm by pressing the [OK] button. Select the [▲][▼] "Antenna & satellite" buttons and confirm by pressing the [OK] button. Use the [▲][▼] "Tuner Configuration" buttons and confirm by pressing the [OK] button. The following display appears (example):

Here you can make the receiver settings for your reception system.

The individual items are selected using the [▲][▼] buttons. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

You can set up the tuner configuration for the following types of reception systems:

- DiSEqC™1.0

- DiSEqC™1.1

- Motorized Antenna (DiSEqC™1.2/DiSEqC™1.3)

- Simple LNB or

- OneCable System

If your reception system is a one cable system, go to the "OneCable System" option and continue from there. For all other types of reception systems, continue from the next page.

Before you start configuring the tuner for your type of reception system you must first make both the "Tuner 2 Connection type" and "Tuner 2 Signal Configuration" settings. Once you have made these settings, continue to follow the directions for your type of reception.

Tuner 2 Connection type

Select the type of connection for tuner 2 here. The currently selected setting is shown graphically in the connection example at the top left of the screen. Either:

Separated:

The second tuner input of the receiver, identified at the rear of the unit by "LNB2 in", receives its own signal input (i.e. there is a direct connection between the antenna socket and tuner input 2). See example screenshot on the right.

Loopthrough (loop-through mode):

The second tuner input of the receiver, identified at the rear of the unit by "LNB2 in", receives the signal currently looped through from the tuner 1 looped through output. In this case, the second tuner can only receive the channel level currently being received by the first tuner. See example screenshot on the right.
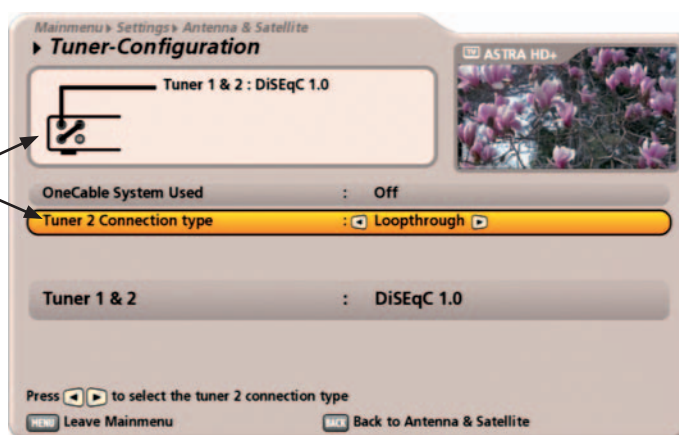
Tuner 2 Signal Configuration (only for "Separated" connection type)

Select the signal configuration for tuner 2 here. The currently selected setting is shown graphically in the connection example at the top left of the screen. Either:

Same with Tuner 1:

Both tuners are connected to the same signal source (same cable from the LNB). See example screenshot on the right.

Tuner Configuration

Different from tuner 1:

The two tuners are connected to different signal sources (separate cables from the LNB). See example screenshot on the right.

The following configuration options are available for:

Tuner 2 Connection type "Loopthrough":

All settings are made on tuner 1. The second tuner is fed from the looped through output of the first tuner.

Available settings for tuner 1 are: "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"

Tuner 2 Connection type "Separated"/Tuner 2 signal configuration "Same with Tuner 1":
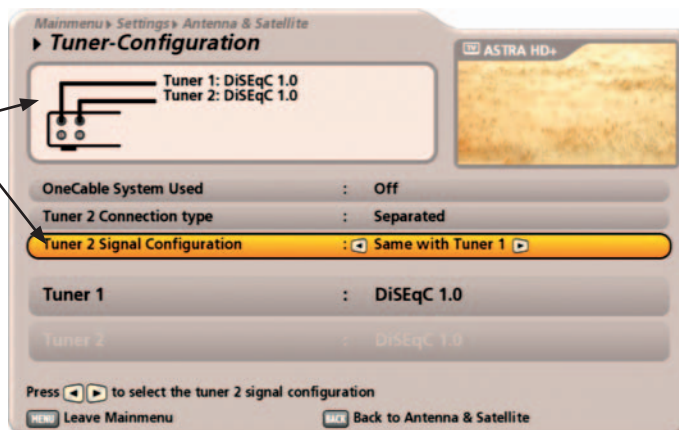
All settings are made on tuner 1. The settings for the second tuner are automatically taken from the first tuner.

Available settings for tuner 1 are: "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"

Tuner 2 Connection type "Separated"/Tuner 2 signal configuration "Different from Tuner 1":

All settings must be made separately for the two tuners.

Available settings for tuner 1 are: "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"
Available settings for tuner 2 are (irrespective of the setting for tuner 1): "DiSEqC™1.0", "DiSEqC™1.1", "Motorized Antenna" and "Simple LNB"

Use the ⊹ buttons to set the parameters "Tuner 2 Connection type" and "Tuner 2 Signal Configuration" appropriate to the setting for your reception system.

Continue as for the explanation for the respective type of reception.

DiSEqC™1.0

The individual items are selected using the [▲][▼] buttons. If you require to access submenus, they can be called up using the [OK] button. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

Tuner 1

Select "Tuner 1" field and press the [OK] button to allow you to make the settings for the first tuner.
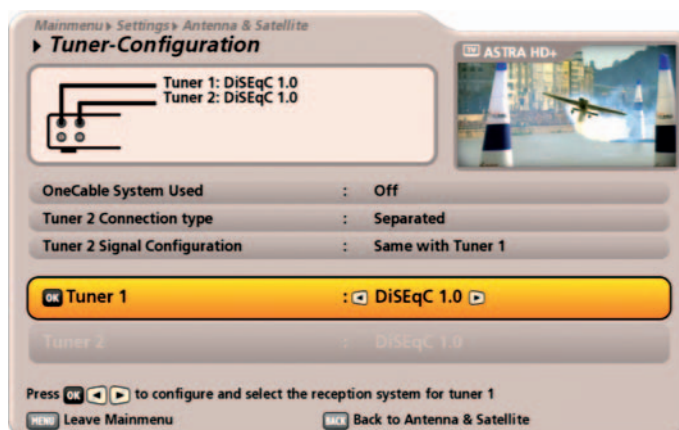
The following display appears:

Number of Satellites

State here the number of satellites received in the signal at tuner 1. A maximum of four satellites can be received at one tuner.

Satellite 1

Select "Satellite 1:***" field and press the [OK] button to allow you to make the settings/selection for the first satellite.

The following display appears:

Satellite and position:

Select here the satellite you desire from the available satellites. By pressing the [OK] button at this point you can view a list of the satellites saved in the receiver. Use the buttons to select the satellite you want and confirm your selection with the [OK] button.
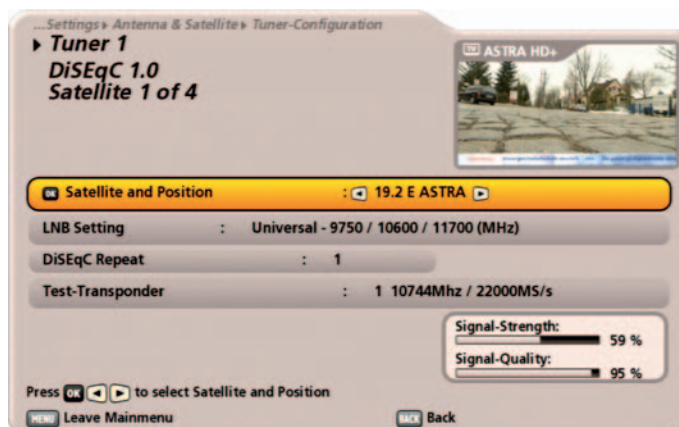
Tuner Configuration

LNB Setting:

Select the "LNB Setting" field. If your reception system does not have a Universal LNB, press the [OK] button so that you can make the settings for the LNB.

You can choose from the following LNB types:

- Universal
- Simple
- User-defined

If your LNB is neither a Universal nor a Simple LNB, select the setting "User-defined". The setting "User-defined" means you must manually set the frequency ranges that are configured for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the [◄][►] buttons or the numeric keypad. When you have completed all settings, press the [BACK] button.

DiSEqC™ Repeat:

Select the "DiSEqC™ Repeat" field. Set the "DiSEqC™ command" repeat rate here to match the configuration of your reception system. You can choose between: "Off" or a unit step in the range "1" to "3".

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings, press the [BACK] button.

Settings for satellites 2, 3 and 4

If you want/are able to receive more than one satellite at the first tuner input, make the settings for the other satellites in the same way as described for the first satellite.

When you have completed the settings for all the satellite, press the [BACK] button.

Settings for tuner 2

If you selected the "Separated" connection type for the second tuner you must now make the settings for the second tuner in the same way as you did for the first tuner.

DiSEqC™1.1

The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◀ ▶ buttons or the numeric keypad.

Tuner 1

Select "Tuner 1" field and press the OK button to allow you to make the settings for the first tuner.
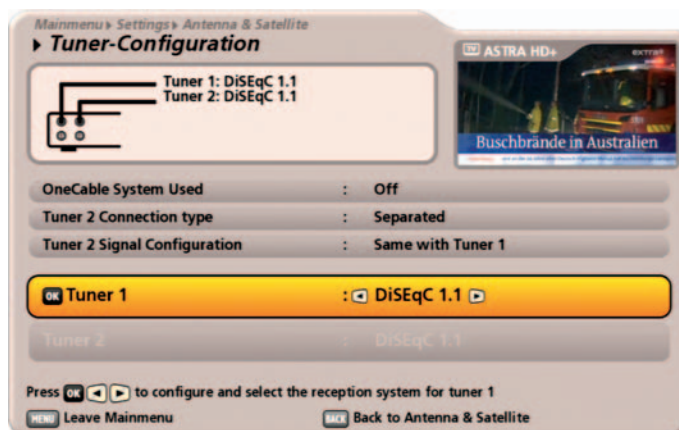
The following display appears:

Number of Satellites

Make the settings for the satellites (up to 64 satellites) here. Select the satellite position (1-64) (in the example on the right, the "ASTRA 19.2° East" satellite has been selected in the first position).

Satellite 1

Select "Satellite 1:***" field and press the OK button to allow you to make the settings/selection for the first satellite.

The following display appears:

<u>Satellite and position:</u>

Select the "Satellite and Position" field. Select here the satellite you desire from the available satellites. By pressing the OK button at this point you can view a list of the satellites saved in the receiver. Use the ✛ buttons to select the satellite you want and confirm your selection with the OK button.

<u>Uncommitted Switch:</u>

Select the "Uncommitted Switch" field. Set the "Uncommitted Switches" here to match the configuration of your reception system. You can select "Deactivated" or a value from "1" to "16" in single unit increments.

Tuner Configuration

Position:

Select the field "SatPos". Set the "Position" here to match the configuration of your reception system. You can select "Deactivated" or a value between "1" and "4" in single unit increments.

DiSEqC™ Repeat:

Select the "DiSEqC™ Repeat" field. Set the "DiSEqC™ command" repeat rate here to match the configuration of your reception system. You can select "Off" or a value between "1" and "3" in single unit increments.

LNB Setting:

Select the "LNB Setting" field. If your reception system

does not have a Universal LNB, press the [OK] button so that you can make the settings for the LNB.

You can choose from the following LNB types:

- Universal
- Simple
- User-defined

If you select "Universal" you need make no further settings. If you select "Simple" you need to input the low frequency manually. For this, refer to the documentation for your LNB.
If you select "User-defined" you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB.

Test-Transponder:

Select the "Test-Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings, press the [BACK] button.

Settings for satellites 2, 3 ... 64

If you want/are able to receive more than one satellite at the first tuner input, make the settings for the other satellites in the same way as described for the first satellite.

When you have completed the settings for all the satellite, press the [BACK] button.

Remove satellite

If you want to remove a satellite from your DiSEqC™1.1 configuration, under "Number of Satellites" use the [◄][►] buttons

to select the satellite to be removed, and then use the [▲][▼] buttons to switch to the "Remove satellite" field. Press

the [OK] button to confirm deletion of the satellite. You are now free to select and configure a different satellite for this position.

Tuner 2

If you selected the "Separated" connection type for the second tuner you must now make the settings for the second tuner in the same way as you did for the first tuner.

Motorized Antenna

The individual items are selected using the ▲▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the numeric keypad.
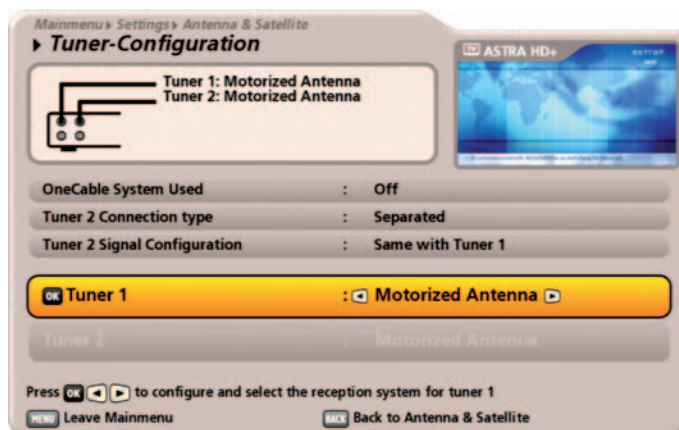
Press the OK button. The following display appears:
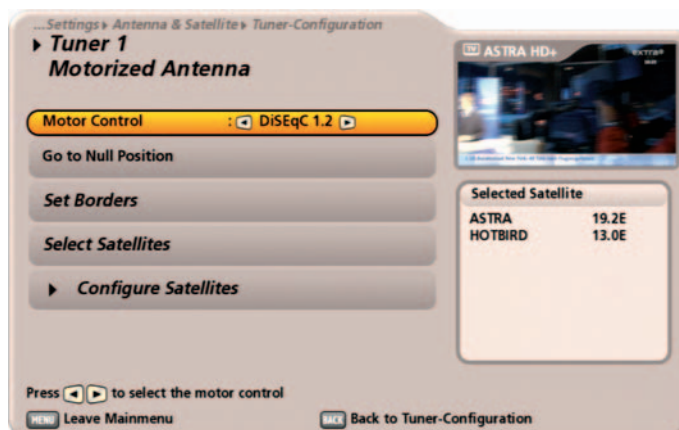
Use the ◄► buttons here to select the control type to match your reception system. Either:

- DiSEqC™1.2
- DiSEqC™1.3

Continue as for the explanation for the control type you have selected in this chapter.

Tuner Configuration

Motorized Antenna (DiSEqC™1.2)

The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the OK button. Changes to the current settings can be made using the ◄ ► buttons or the numeric keypad.

Motor Control

Select the control type "DiSEqC™1.2". Refer to the documentation for your motorized antenna for details.

Go to Null Position

Select the "Go to Null Position" field. Press the OK button to instruct the turntable to move to its null position.

Set Borders

Select the "Set Borders" field. In this menu you can set the limits for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).

Press the OK button. The following display appears:

The following buttons allow you to control the movement of the turntable:

◄◄	Start slow rotation to the West
◄	Rotate to the West step by step
■	Stop the current movement
►	Rotate to the East step by step
►►	Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field "Set current position for "****" border" and press the OK button to confirm.

If you subsequently want to delete the Set Borders, switch to the "Reset border positions" field and press the OK button to confirm deletion of the limits. You can then set new values for the limits. Once you have set all the limits, press the BACK button.

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Select Satellites

Select the "Select Satellites" field. Select here which satellites you want to receive via your turntable. Pressing

the [OK] button presents a display of the satellites stored in the receiver:

Use the [arrow] buttons to select the satellites to be received and confirm your selection in each case using

the [OK] button. The selected satellites will be identified with a tick.

When you have completed all settings, press the [BACK] button.

Set Up Satellites

Select the "Set up satellites" field. Press the [OK] button to allow settings/selection of the satellite(s).
The following display appears:

<u>LNB Setting:</u>

If your reception system does not have a Universal LNB,

press the [OK] button so that you can make the settings for the LNB.

You can choose from the following LNB types:

- Universal

- Simple

- User-defined

If you select "Universal" you need make no further settings. If you select "Simple" you need to input the low frequency manually. For this, refer to the documentation for your LNB.
If you select "User-defined" you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB.

<u>Satellite and position:</u>

Select the "Satellite and Position" field. From the previously selected satellites, select here the satellite for which you want the turntable to search.

<u>Test-Transponder:</u>

Select the "Test Transponder" field. Select here a test transponder for the satellite being searched for, at which you will be able to detect in the course of the search for the satellite when you have received a signal from the satellite being searched for.

Tuner Configuration

Stop on Signal:

Select the "Stop on Signal" field. Here, you can select whether the motorized antenna should stop its rotary movement immediately on reception of a signal from the desired satellite. You can choose between "On" and "Off".

Move Motorized Antenna:

Select the "Move Motorized Antenna" field. Here you can control the movements of the motorized antenna, using the following buttons:

◄◄	Start slow rotation to the West
◄	Rotate to the West step by step
■	Stop the current movement
►	Rotate to the East step by step
►►	Start slow rotation to the East

Set the turntable so that both of the bars "Signal-Strength" and "Signal-Quality" on the right of the screen show the highest available percentage values.

Once you have achieved the best reception signal, select the "Store actual Position" field.

Store actual Position:

Once you have achieved the maximum signal strength and signal quality you can save the current position of the turntable

for the above mentioned satellite using the [OK] button.

If you previously selected more than one satellite under "Select Satellites", you must now make this setting for the other satellites. Switch to the "Satellite and Position" field and select the next satellite. Repeat the set-up of the turntable for this satellite, as described above.

Once you have saved the positions of the turntable for all the selected satellites, press the [BACK] button to exit the menu.

Motorized Antenna (DiSEqC™1.3)

Motor Control

Select the control type "DiSEqC™1.3". For this, refer to the documentation for your motorized antenna.

My Longitude

Select the "My Longitude" field and use the numeric keypad to input your actual longitude.

My Latitude

Select the "My Latitude" field and use the numeric keypad to input your current latitude.

Go to Null Position

Select the "Go to Null Position" field. Press the `OK` button to instruct the turntable to move to its null position.

Set Borders

Select the "Set Borders" field. In this menu you can set the limits for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).
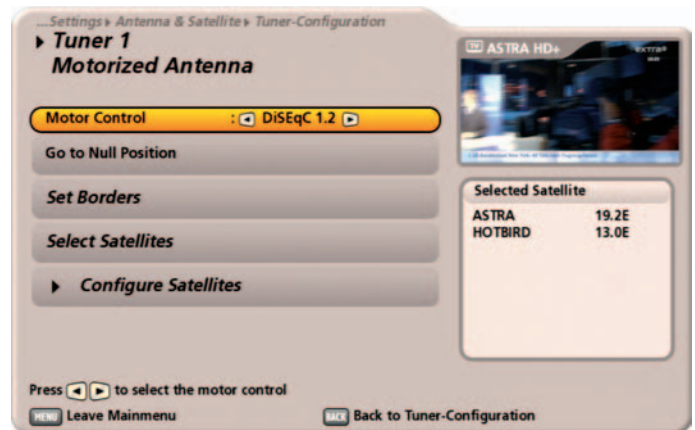
Press the `OK` button. The following display appears:

The following buttons allow you to control the movement of the turntable:

◄◄	Start slow rotation to the West
◄	Rotate to the West step by step
■	Stop the current movement
►	Rotate to the East step by step
►►	Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field "Set current position for "****" border" and press the `OK` button to confirm.

If you subsequently want to delete the Set Borders, switch to the "Reset border positions" field and press the `OK` button to confirm deletion of the limits. You can now set new limits. Once you have set all the limits, press the `BACK` button.
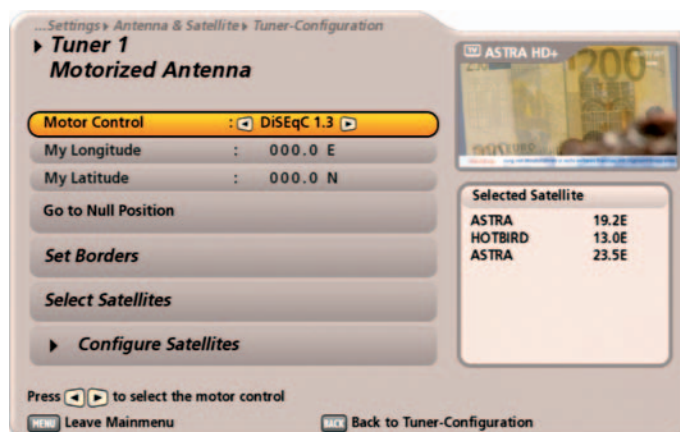
Tuner Configuration

Select Satellites

Select the "Select Satellites" field. Select here which satellites you want to receive via your turntable. Pressing the [OK] button presents a display of the satellites stored in the receiver:

Use the [▲] [▼] buttons to select the satellites to be received and confirm your selection in each case using the [OK] button. The selected satellites will be identified with a tick.

When you have completed all settings, press the [BACK] button.

Set Up Satellites

Select "Set up satellites" field and press the [OK] button to allow you to make the settings/selection for the satellite(s). The following display appears:

LNB Setting:

Select the "LNB Setting" field. If your reception system does not have a Universal LNB, press the [OK] button so that you can make the settings for the LNB.

You can choose from the following LNB types:
- Universal
- Simple
- User-defined

If you select "Universal" you need make no further settings. If you select "Simple" you need to input the low frequency manually. For this, refer to the documentation for your LNB.
If you select "User-defined" you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB.

Satellite and position:

Select the "Satellite and Position" field. From the previously selected satellites, select here the satellite for which you want to select a test transponder.

Test-Transponder:

Select the "Test Transponder" field and set a test transponder for the currently selected satellite. You can see from the signal strength and signal quality when the turntable has found the desired satellite.

If you previously selected more than one satellite under "Select Satellites", you must now make these settings for the other satellites. Switch to the "Satellite and Position" field and select the next satellite. If necessary, repeat the setting of the LNB. It is not essential to set a test transponder.

When all settings have been made, press the [BACK] button to exit the menu.

Simple LNB

The individual items are selected using the [▲][▼] buttons. If you require to access submenus, they can be called up using the [OK] button. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

Tuner 1

Select "Tuner 1" field and press the [OK] button to allow you to make the settings for the first tuner.

Satellite and position:

Select here the satellite you desire from the available satellites. By pressing the [OK] button at this point you can view a list of the satellites saved in the receiver.

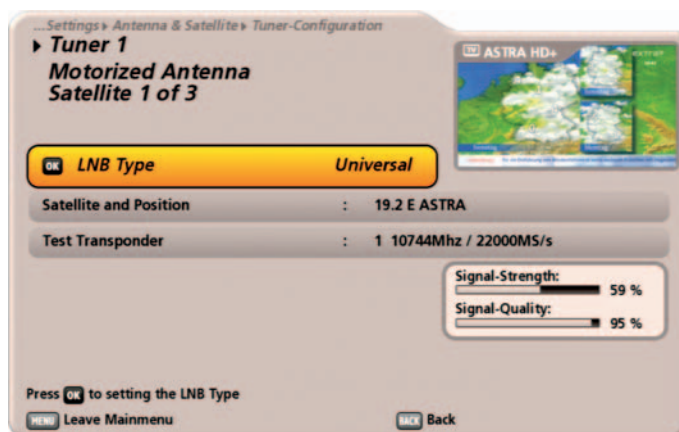Use the [✛] buttons to select the satellite you want and confirm your selection with the [OK] button.

LNB Setting:

Select the "LNB Setting" field. If your reception system does not have a Universal LNB, press the [OK] button so that you can make the settings for the LNB.

You can choose from the following LNB types:

- Universal
- Simple
- User-defined

If your LNB is neither a Universal nor a Simple LNB, select the setting "User-defined". The setting "User-defined" means you must manually set the frequency ranges that are configured for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the [◄][►] buttons or the numeric keypad. When you have completed all settings, press the [BACK] button.

Test-Transponder:

Select the "Test Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings, press the [BACK] button.

Tuner Configuration

OneCable System

Use the ◄ ► buttons to select "On" in the "OneCable System Used" line.

The following display appears:
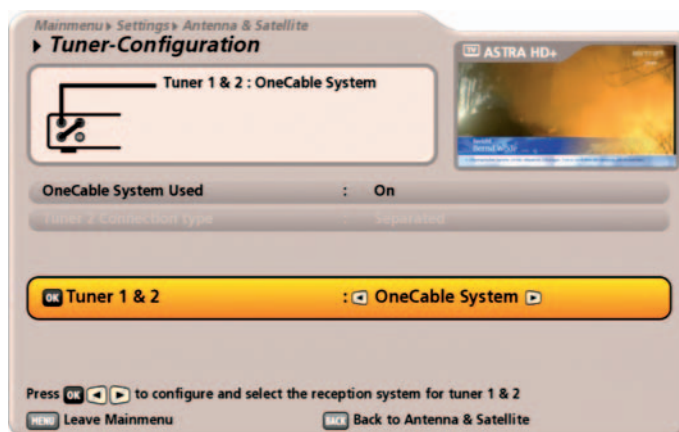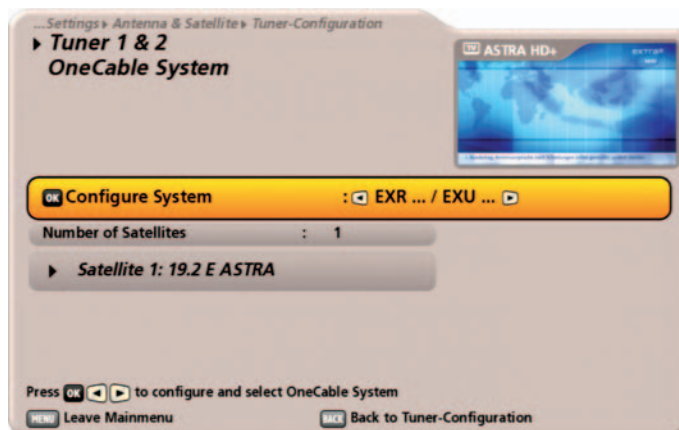
Press the OK button.

The following display appears:

Use the ◄ ► buttons to select the one cable system used in your reception system:

- EXR ... / EXU ...   For all Kathrein one cable matrices
- UAS 481   For the Kathrein one cable LNB UAS 481
- User-defined   For all one cable systems not covered by either of the above specifications

OneCable System - EXR ... / EXU ...

After calling up the menu you will see the following display:

Press the [OK] button to access the system settings.

The following display appears:

The individual items are selected using the [▲][▼] buttons. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

> ⚠ **Refer to the documentation supplied with your system for the settings for the SCRs, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; if so, the relevant frequencies will also be listed in the documentation for the one cable components.**
>
> **Please note also that multiple receivers cannot share the same frequencies/channels - the receivers would interfere with each other.**
>
> **Do not assign the same frequencies/channels to tuner 1 and tuner 2.**

Protect the channel with a PIN:

If your one cable system allows the transmission frequency to be protected by inputting a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is input.

Select the setting "On". You then have the facility of using the numeric keypad to input a PIN code (0-255) in the line underneath "Tuner 1 PIN code".

Tuner Configuration

Transmission channel for tuner 1:

Select a free available transmission channel (SCR 0 - SCR 7).

Transmission frequency for tuner 1:

Select here one of the free available transmission frequencies.

See example on the right (EXR 551) for assignment of a transmission channel to a transmission frequency.

1 = SCR(0) 1400 MHz
2 = SCR(1) 1516 MHz
3 = SCR(2) 1632 MHz
4 = SCR(3) 1748 MHz

Make the settings for the second tuner in the same way as for the first tuner.

Then press the [BACK] button.

Number of Satellites

Select the "Number of Satellites" field and set the number of satellites to be received by your reception system. A maximum of two satellites can be received.
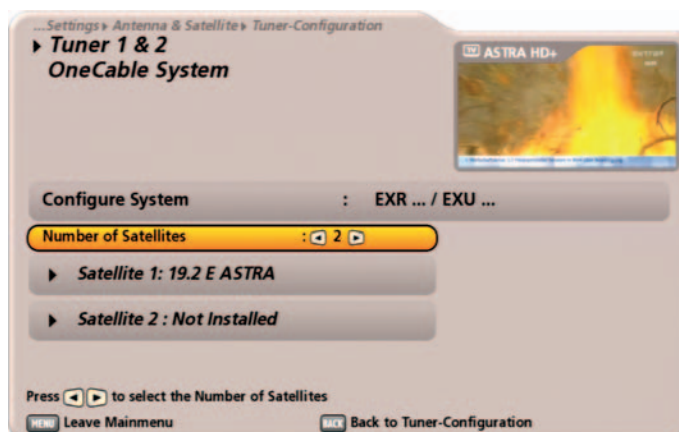
Satellite 1: ....

Select the "Satellite 1:***" field and press the [OK] button to make the settings for the first satellite to be received. The following display appears (example):

LNB Setting:

If your reception system does not have a Universal LNB,

press the [OK] button so that you can make the settings for the LNB.
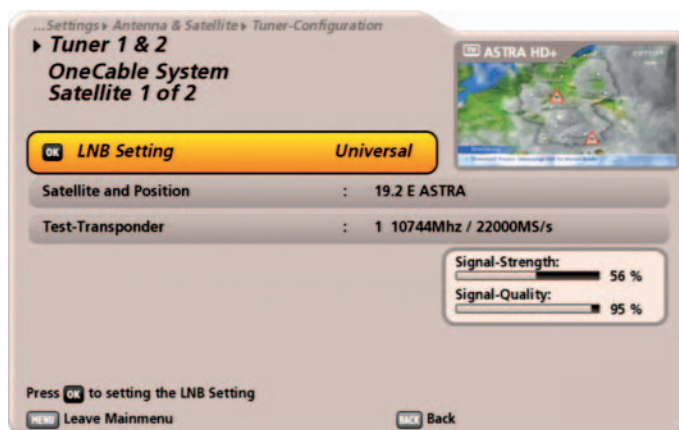
The following display appears:

You can choose from the following LNB types:

- Universal

- Wideband

- User-defined

If your LNB is neither a Universal nor a Wideband LNB, select the setting "User-defined". The "User-defined" setting means you must manually set the frequency ranges that are configured for your LNB. Select the frequency range to be changed and set the values

that are correct for your LNB, using the [◄][►] buttons or the numeric keypad. When you have completed all settings, press the [BACK] button.

Satellite and position:

Select the "Satellite and Position" field and select here the satellite you desire from the available satellites. By pressing the [OK] button at this point you can view a list of the satellites saved in the receiver. Use the [⬍] buttons to select the satellite you want and confirm your selection with the [OK] button.

Test-Transponder:

Select the "Test Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When all settings have been made, press the [BACK] button to exit the menu.

If you previously selected two satellites under "Number of Satellites", you must now make these settings for the second satellite. Switch to the "Satellite 2:***" field and make the settings in the same way as for the first satellite.

When all settings have been made, press the [BACK] button to exit the menu.

Tuner Configuration

OneCable System - UAS 481

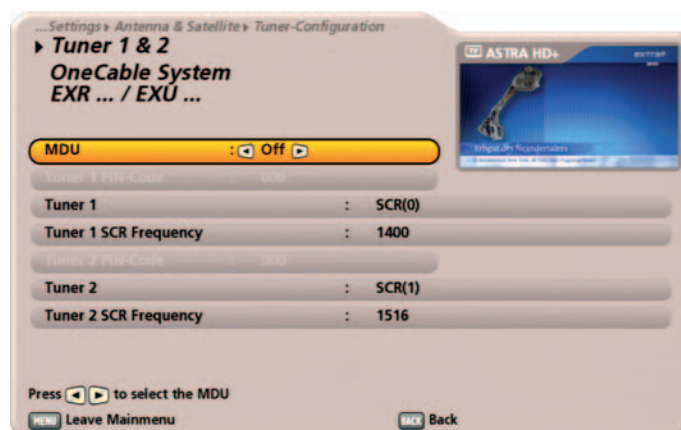After calling up the menu you will see the following display:

Press the [OK] button to access the system settings.

The following display appears:

The individual items are selected using the [▲] [▼] buttons. Changes to the current settings can be made using the [◄] [►] buttons or the numeric keypad.

⚠️
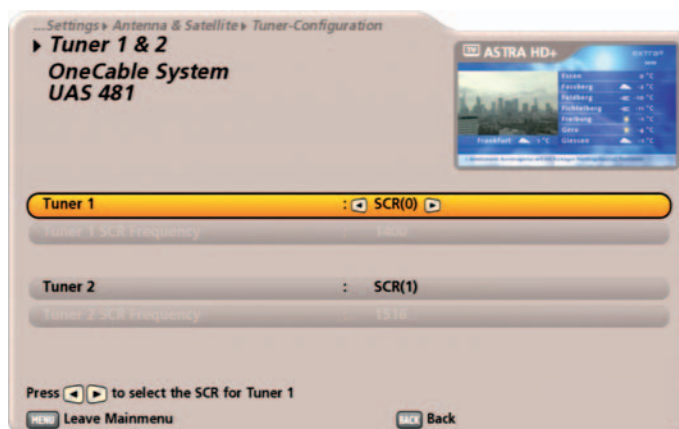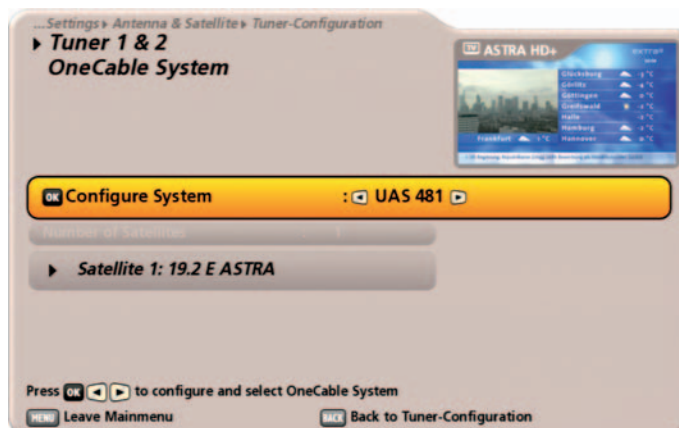
Refer to the documentation supplied with the UAS 481 for the settings for "Tuner 1" and "Tuner 2".

Multiple receivers cannot share the same frequencies. The receivers would interfere with each other.

Do not assign the same frequencies/channels to tuner 1 and tuner 2.

Transmission channel for tuner 1:

Select a free available transmission channel (SCR 0 - SCR 3).

Transmission channel for tuner 2:

Select a free available transmission channel (SCR 0 - SCR 3).

Then press the [BACK] button.

The following display appears:

Use the ▲ ▼ buttons to select "Satellite 1: ****" and press the OK button.

The following display appears:

<u>Satellite and position:</u>

Select here the satellite you desire from the available satellites. By pressing the OK button at this point you can view a list of the satellites saved in the receiver. Use the buttons to select the satellite you want and confirm your selection with the OK button.

<u>Test-Transponder:</u>

Select the "Test Transponder" field. Here you can select a transponder for checking the signal strength bar and signal quality bar to see whether your settings are correct.

If no connection can be established to the one cable system, check your settings (transmission channel and frequency) and if necessary call for expert help.

When all settings have been made, press the BACK button to exit the menu.

Tuner Configuration

User-defined

After calling up the menu you will see the following display:

Press the [OK] button to access the system settings.

The following display appears:

The individual items are selected using the [▲][▼] buttons. Changes to the current settings can be made using the [◄][►] buttons or the numeric keypad.

> ⚠️ **Refer to the documentation supplied with your system for the settings for the SCRs, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; if so, the relevant frequencies will also be listed in the documentation for the one cable components.**
>
> **Please note also that multiple receivers cannot share the same frequencies/channels - the receivers would interfere with each other.**
>
> **Do not assign the same frequencies/channels to tuner 1 and tuner 2.**

Protect the channel with a PIN:

If your one cable system allows the transmission frequency to be protected by inputting a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is input.

Select the setting "On". You then have the facility of using the numeric keypad to input a PIN code (0-255) in the line underneath "Tuner 1 PIN code".

Transmission channel for tuner 1:

Select a free available transmission channel (SCR 0 - SCR 7).

Transmission frequency for tuner 1:

Here, you can select one of the free available transmission frequencies or use the numeric keypad to input the required frequency.

See example on the right (EXR 551) for assignment of a transmission channel to a transmission frequency.

EXR 551
20510024

1 = SCR(0) 1400 MHz
2 = SCR(1) 1516 MHz
3 = SCR(2) 1632 MHz
4 = SCR(3) 1748 MHz

Make the settings for the second tuner in the same way as for the first tuner.

Then press the [BACK] button. You will be asked whether you want to save the changes. Use the [◄][►] buttons to select "Yes, save the changes" and confirm with the [OK] button.

If a connection to the one cable system cannot be established, check your settings (frequency and transmission channel) and if necessary call for expert help.

Number of Satellites

Select the "Number of Satellites" field and set the number of satellites to be received by your reception system. A maximum of two satellites can be received.
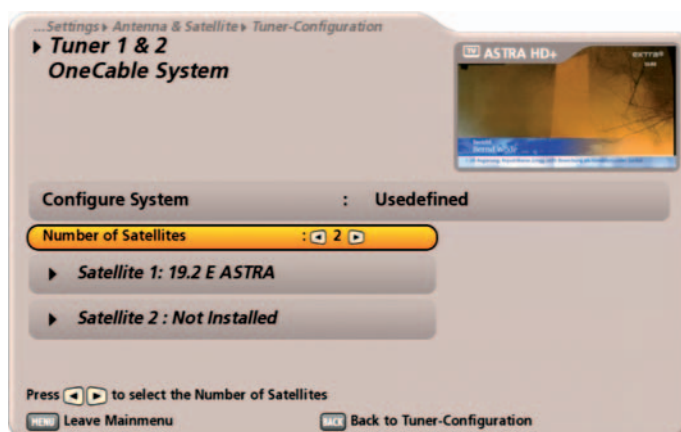
Satellite 1: ....

Select the "Satellite 1:***" field and press the [OK] button to make the settings for the first satellite to be received. The following display appears (example):

LNB Setting:

If your reception system does not have a Universal LNB,

press the [OK] button so that you can make the settings for the LNB.

Tuner Configuration

You can choose from the following LNB types:

- Universal
- Wideband
- User-defined

If your LNB is neither a Universal nor a Wideband LNB, select the setting "User-defined". The "User-defined" setting means you must manually set the frequency ranges that are configured for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the ◀ ▶ buttons or the numeric keypad. When you have completed all settings, press the BACK button.

Satellite and position:

Select the "Satellite and Position" field and select here the satellite you desire from the available satellites. By pressing the OK button at this point you can view a list of the satellites saved in the receiver. Use the ✢ buttons to select the satellite you want and confirm your selection with the OK button.

Test-Transponder:

Select the "Test Transponder" field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When all settings have been made, press the BACK button to exit the menu.

If you previously selected two satellites under "Number of Satellites", you must now make these settings for the second satellite. Select the "Satellite 2:****" field and make the settings in the same way as for the first satellite.

When all settings have been made, press the BACK button to exit the menu.

General multimedia information (UFS 922)

In addition to the familiar FTP server functionality from software version 1.01 for transferring data (recordings and pictures) via the network, from software version 1.02 the UFS 922 provides more extensive network functions.

o   UPnP server functionality (e.g. streaming of UFS 922 recordings on external devices)
o   MP3 playback
o   JPEG display
o   Playback of external recordings (UFS 922, 910, 902, 822, 821)
o   XVID playback

The screens below show a possible network configuration for streaming and playing back media files. The UFS 922 automatically detects the connected devices/servers after successful initialisation and displays them as follows in the Media Centre.
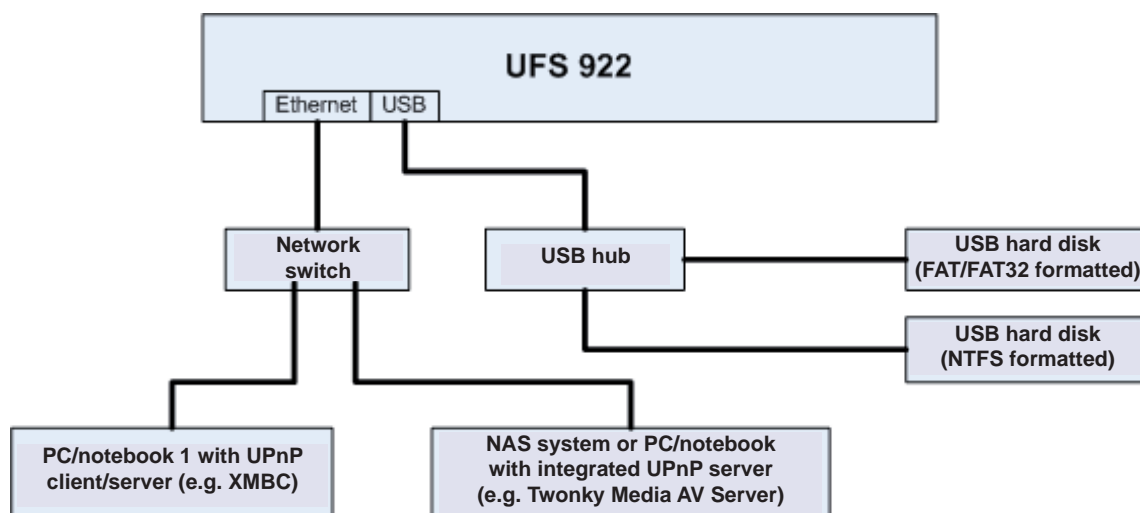
Press the [MEDIA] button to call up the multimedia menu.

Internal hard disk (media and recording archive)

External USB storage media (formatted as "NTFS" and "FAT/FAT32")

The UPnP server generated by the UFS 922 (setting made under "Applications" in main menu). It contains the data from the internal hard disk (media and recording archive) and the data from the connected USB storage media.

External UPnP server (server running on connected PC/laptop or connected NAS systems with integrated server)

Multimedia

⚠ **NTFS formatted USB storage media can only be read by the UFS 922, _not_ written. It is not possible to copy recordings from the UFS 922's internal hard disk to external NTFS formatted USB storage media!**

UPnP client/server functionality (UPnP = Universal Plug and Play)

The UFS 922 can operate as both a UPnP media client and a UPnP media server. Further information about UPnP can be found on the Internet at "www.upnp.org".

UPnP media client:
Streaming from external devices to the UFS 922

UPnP media server:
Streaming from the UFS 922 to external devices
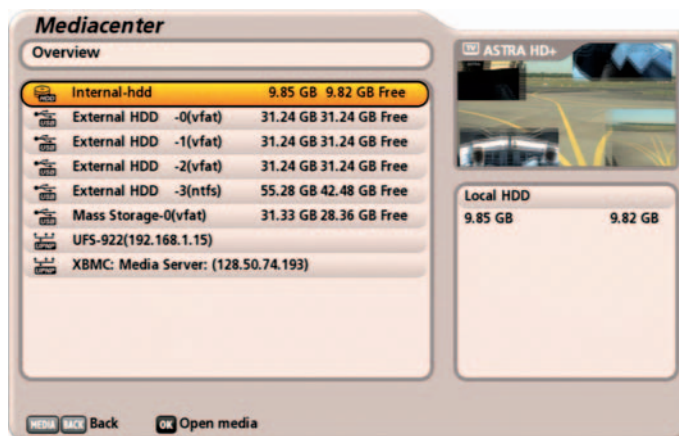
⚠ **To use these functions, the correct settings must be made for the firewall running on the PC/notebook. You may need to add the UFS 922 to the firewall exclusion list.**

Playing media files (selecting source directory)

Use the ▲▼ buttons to select the source directory.

Open using the OK button.

Media data from the following connected devices can be played back:

- Internal hard disk (media archive)

- USB storage media (FAT/FAT32 or NTFS formatted)

- UPnP servers in the network and detected (e.g. XMBC server, Twonky Media Server, other UFS 922 units etc.)

JPEG playback

Use the ▲▼ buttons to select the first picture in your slide show. Press the OK button to start the slide show.
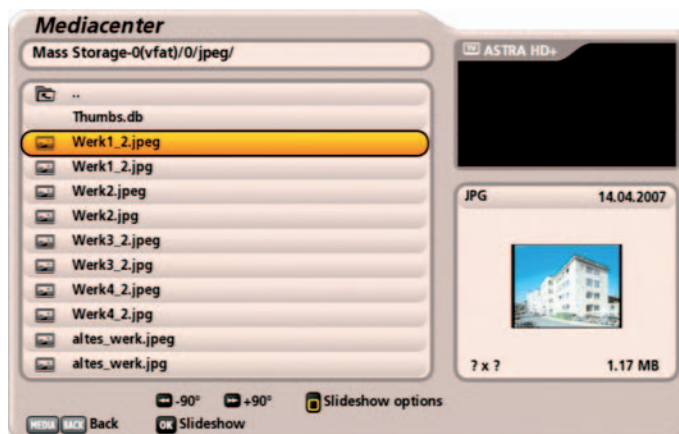
JPEG playback

Use the ▲▼ buttons to select the first picture in your slide show. Press the OK button to start the slide show.

During playback, you have the following control options:

⏸	Pause
▶	Start playback after pause
▲ ▼	Next/previous picture
◄◄ ►►	Rotate picture 90° (only works from software version 1.01 onwards)
■ /BACK	Slide show is cancelled and the Media Centre is displayed

Slide show settings

To change the settings for the slide show, press the OPT (yellow) button after selecting the first picture.
The following display appears (example):
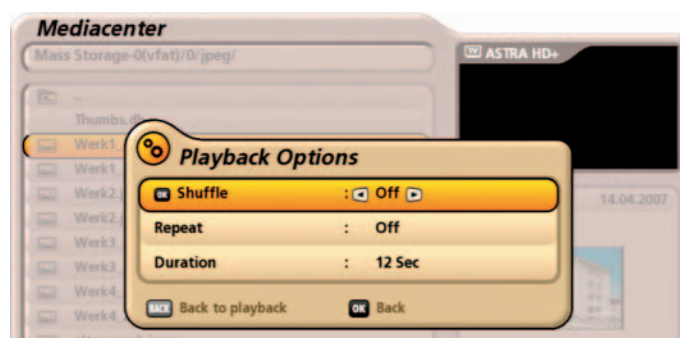
Use the ▲▼ buttons to select the setting to be changed and make the changes using the ◄► buttons. You can select "On" or "Off" for both of the "Shuffle" and "Repeat" setting options. The "Duration" setting determines the time for which a picture is displayed in the slide show.

Press the OK or BACK button to exit the settings.

MP3 playback

The Media Centre has an integral MP3 player. The MP3 specific information display is based on "IDTag Info V2.3". If this is not available, the file name is displayed instead of this information. Only files from the previously selected folder are played back. Use the ▲▼ buttons to select the track with which you want to start your playback. Press the OK button to start the MP3 player in the Media Centre. Pressing the OK button again switches to full-screen view.

Information about the currently selected MP3 file (title, artist, album, year). This information must be contained in the MP3 file - ID3Tag information!

Multimedia

During playback, you have the following control options:

⏸	Pause
▶	Start playback after pause
▲ ▼	Next/previous track
◀ ▶	Skip 30 seconds forwards or backwards
■ / BACK	Cancels MP3 playback and displays the Media Centre

MP3 player settings

To change the settings for the MP3 player, press the

▣ (yellow) button after selecting the first track.
The following display appears (example):
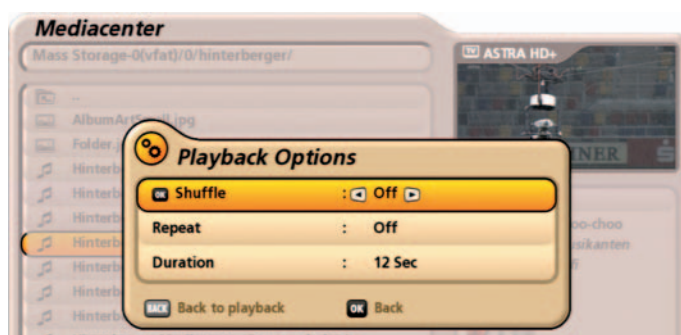
Use the ▲▼ buttons to select the setting to be changed and make the changes using the ◀▶ buttons. You can select "On" or "Off" for both of the "Shuffle" and "Repeat" setting options.

Press the OK or BACK button to exit the settings.

Playing external recordings

⚠ **The recording to be played back does not necessarily have to have been made on the UFS 922. The UFS 922 can be used to play back recordings made using the Kathrein UFS 910, UFS 902, UFS 822 and UFS 821 receivers.**

Use the ▲▼ buttons and the OK button to select the recording or the folder containing the recording.

To start playback, press the OK button. The picture of the recording is displayed in the preview window in the

top right. Pressing the OK button again or pressing

the ▶ button starts playback in full-screen mode.

To cancel playback, press the ■ button.

During playback, you have the following control options:

⏸	Pause
▶	Start playback after pause; show/hide playback banner
▲ ▼ +/−	10 % jumps forwards/back in recording
◀ ▶	Skip 30 seconds forwards or backwards
▶▶	Available fast forward speeds: 2, 4, 8, 16 and 32 times. Each time the fast forward button is pressed, the fast forward speed increases another step. Pressing the rewind button reduces the fast forward speed step by step. Press the "Play" button to return to the normal playback speed
◀◀	Available rewind speeds: 2, 4, 8, 16 and 32 times. Each time the rewind button is pressed, the rewind speed increases another step. Pressing the fast forward button reduces the rewind speed step by step. Press the "Play" button to return to the normal playback speed
■	Cancels playback and displays the Media Centre
OK MEDIA	Media Centre display (playback continues in preview window). Pressing again restarts full-screen mode.
Number buttons	Enter percentage, e.g. entering "50" means that the receiver will automatically skip to the middle of the programme being viewed to start playback
ℹ	Show/hide playback info banner

XVID playback

Playback of XVID files functions in the same way as playback of an external recording (see "Playback of external recordings").

Streaming from the UFS 922 to external devices

From software version 1.2 onwards, the integrated UPnP server in the UFS 922 enables the media files stored on the UFS 922 (MP3s, JPEGs and recordings) to be provided to external devices and streamed via the network using UPnP. The external device must have a UPnP client that is capable of displaying and playing these files.
This function has been tested with the XMBC Media Center software (http://xbmc.org).

Operation from the front panel (without remote control)

If you have misplaced your remote control, or if the batteries are flat, you can still operate your receiver from the front panel.

Backup operation

The front panel houses four buttons and the multifunction control (from now on referred to as "the control").

Record button:
Press the Record button to start a manual recording. The receiver also allows you start a second recording.

Stop button:
The Stop button allows you to stop the current recordings. The stop always applies to the first recording to be started.

AUX button:
If an external device is connected to the VCR Scart socket, the TV signal present at the VCR Scart socket can be looped through to the TV Scart socket. Pressing the AUX button more than once toggles between the TV Scart mode and the VCR Scart loop-through mode.

TV/R button:
You can change between the TV and the radio mode using the TV/R button.

Multifunction control:

By pressing the centre button of the control you can toggle between the two displays "List" and "Volume" on the receiver display. The function that is active lights up.

If the "List" display is lit up, the multifunction control can only switch between channels.

If the "Volume" display is lit up, the multifunction control can only adjust the volume.

After the receiver is switched off and on again, the last function to be selected is active.

⚠️ **Because there are no numbered buttons, no password/PIN-protected functions can be displayed.**

Software update via the front USB port

> ⚠ **A pre-requirement for the update via a USB device is an empty USB device (such as a USB stick), formatted as FAT32, containing only the operating software or channel list to be loaded. It is essential that the operating software to be loaded is stored on the USB device under the following directory structure: Main folder: kathrein**
> **Subfolder: └   ufs922**

You can also download the updates from the Internet. The address is: http://www.kathrein.de
You will find the software at "Service" → "Software and Download" → "Receiver" → "UFS 922"

Performing the software update

1. Use the remote control to switch the receiver into standby mode

2. Switch on the receiver at the main switch at the rear of the unit

3. Now connect your USB device (with the new operating software, in the required directory structure) to the receiver, using the USB port on the front panel of the receiver

4. Keep the AUX button pressed, and switch the receiver on again, using the main switch at the rear of the unit

The following display appears: USB Emergency UP
Once the receiver has displayed this text you can let go the AUX button. The receiver will then automatically perform the steps described below:

- Load Script File

- Wait: USB Load

- Done: xxxxxx RD

- Check Update File

- (1/x) Er yyy (x=number of updates found on the USB device/yyy= progress display from 1-100)

- (1/x) Wr yyy (x=number of updates found on the USB device/yyy= progress display from 1-100)

The receiver now performs the update and starts in the last selected operating mode.

You can now disconnect the USB device from the receiver.

Troubleshooting

In the event of a malfunction, first check all the cable connections and operating states:

1. Receiver and TV set power plugs are connected to wall socket
2. Antenna cables are connected to the receiver input
3. Receiver and TV set are correctly connected to each other by a HDMI or Scart or cinch cable
4. Audio connections are made to the Hi-Fi or Dolby Digital system as appropriate
5. Receiver and TV set (Hi-Fi/Dolby Digital system) are switched on (check power indicators)
6. Receiver is responding to remote control

A selection of troubleshooting tips is offered below.

Problem	Cause	Remedy
A "No signal!" warning appears on some or all channels	Antenna signal of satellite reception system missing or faulty. Incorrect LNB frequencies set in the "Tuner Configuration" menu.	Consult an antenna specialist to have it checked and repaired as necessary. Check the settings made in the "Settings", "Antenna & satellite", "Tuner Configuration" menu, and change them if necessary.
Remote control no longer responding	Receiver or remote control command set may have been unintentionally changed	Set infrared code 1 as described in this manual under "Main menu settings", "Basic settings", "Setting the remote control code", check the batteries
Wrong time being displayed	"Summer Time" setting wrong. An incorrect time was imported from the reception signal	Check "Summer Time Enabled" in the "Settings" "Date and Time Setup" menu and change it as necessary Use the power switch to switch the receiver off from the current channel, e.g. Das Erste or ZDF, wait 10 seconds and then switch it back on
The following channels cut out or "No or bad signal!" appears: DSF, Tele 5, HSE 24 and Sonnenklar TV	DECT telephones operate on the same frequency as these channels. Interference may occur due to inadequate level or poor shielding of cable	Consult your antenna specialist
Black or blue screen, no on-screen displays	Scart connection to TV deactivated by accidentally pressing the 0 button	Keep pressing the 0 button until the TV picture reappears on the screen
Network problem	Check that the (cross-over) network cable is correctly connected at the PC and receiver (clicked home)	Refer to your PC or network specialist

Technical specification

Type		UFS 922si	UFS 922sw
Order no.		20210121	20210122
Colour		Silver	Black
RF section			
Sat IF band	MHz	950-2150	
Input level band	dBµV	44-83	
Modulation, FEC, demultiplexer		DVB-S/DVB-S2 standard	
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i	
Video decryption		MPEG-2, MPEG-4-compatible	
Input data rate	MSymb/s	2-45	
S/N	dB	> 53	
TV system, audio			
Decryption		AC 3, MPEG-4, MPEG-1, Layer 1, 2 and 3	
Sampling rate	kHz	32/44.1/48	
S/N	dB	> 65	
Hard disk recorder			
Capacity		500	
Recording time		Approx. 300 hours for SDTV, approx. 100 for HDTV (depending on data rate and change of picture content).	
Power Supply			
Power supply voltage	V/Hz	100-240/50-60	
Power consumption (max./typ. operation/standby)	W	< 65/Typ. 30/<1	
LNB supply (horiz./vert.)	V/mA	14/18; max. 400	
Control signal	kHz	22; DiSEqC™1.0/-1.1/-1.2/-1.3; SCR one cable system	
Connections			
Sat IF input/output		4 x F sockets	
TV/VCR connection		2 x Scart socket	
Video output (analogue)		3 x Cinch socket (YPbPr)/1 x Cinch socket	
Video/audio output (digital)		1 x HDMI	
Audio output (analogue)		2 x Cinch socket	
Audio output (digital)		Standard fibre-optic (SPDIF)	
Data interface			
Common Interface		For 2 CA modules	
USB		3 x 2.0	
Ethernet		1	
RS 232		1	
General Information			
Ambient temperature	°C	Max. +5 to +40	
Unit dimensions (W x H x D)	mm	435 x 69 x 303	
Weight	kg	3.6	

Examples of one cable systems
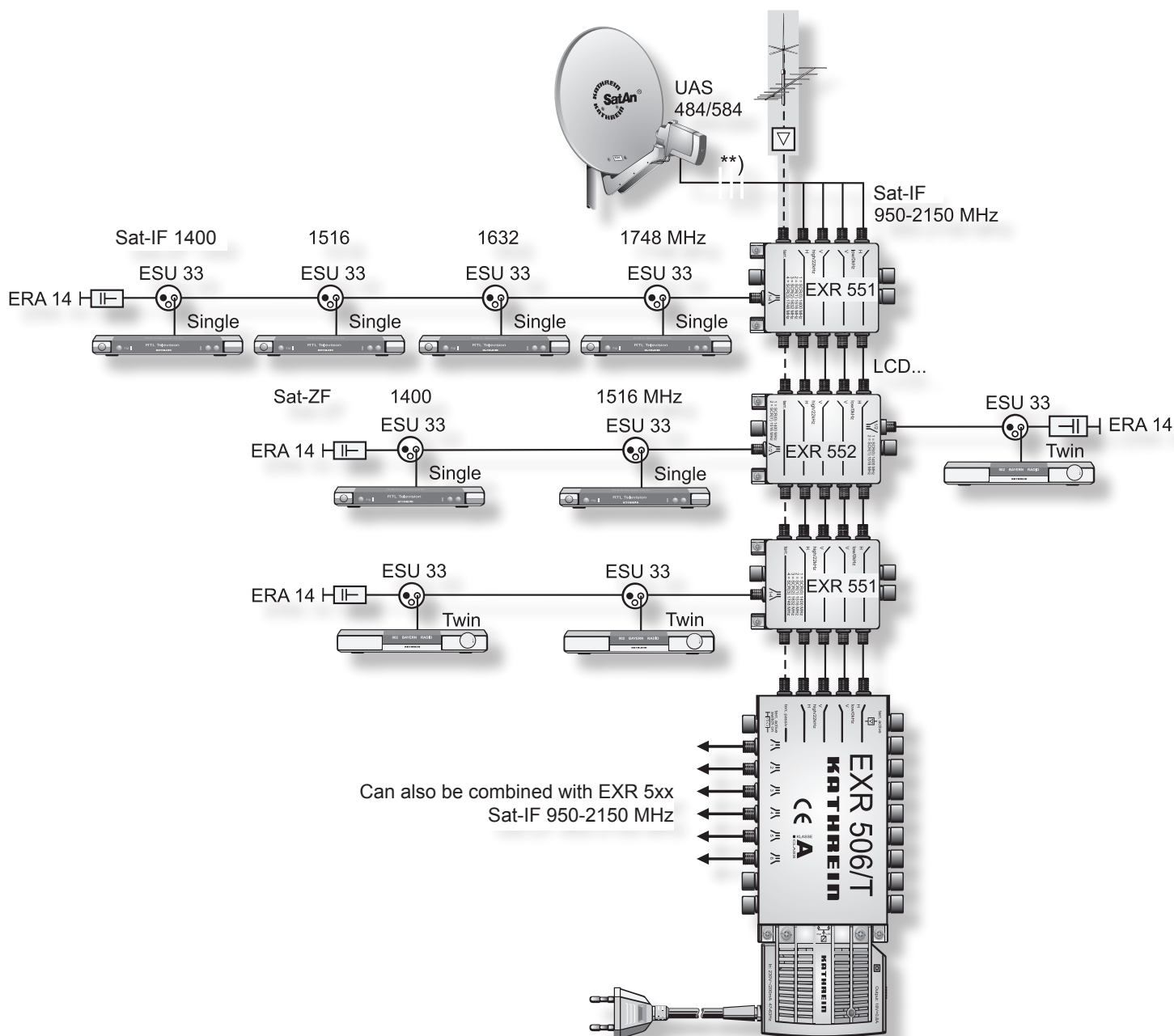
*) The receiver must be programmed for one cable commands
**) Overvoltage protection KAZ 11/KAZ 12

UAS 484/584

**)

Sat-IF
950-2150 MHz

EXR 2581   EXR 2581   EXR 1581

EBC 10   EBC 10

Single	ESU 33	Twin
Single	ESU 33	Twin
Single	ESU 33	ERA 14
Single	ESU 33	

ERA 14

ESU 33	Twin
ESU 33	Twin
ESU 33	Twin
ESU 33	Twin

ERA 14

Single	ESU 33	Single
Single	ESU 33	Single
Single	ESU 33	Single
Single	ESU 33	Single

ERA 14
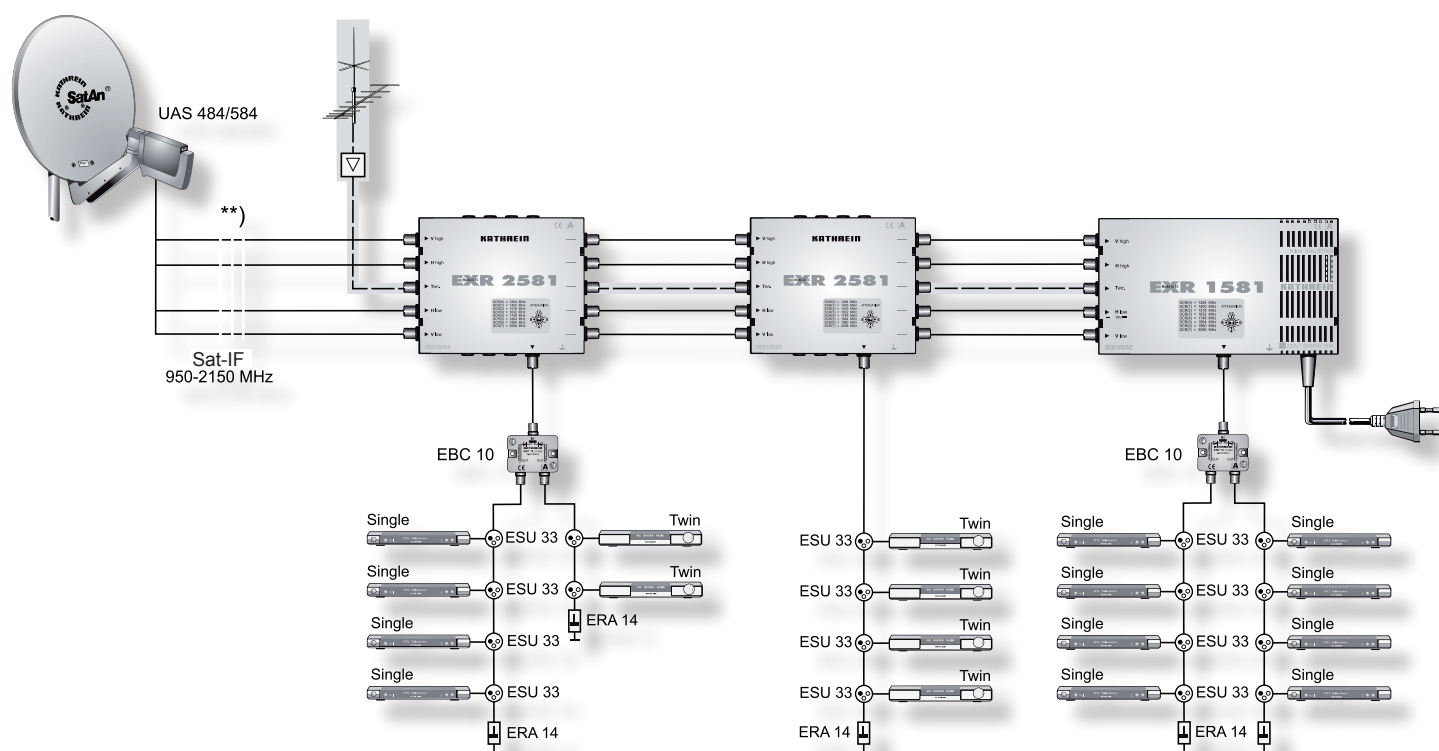
*)   The receiver must be programmed for one cable commands
**)   Overvoltage protection KAZ 11/KAZ 12

8 connections per living unit
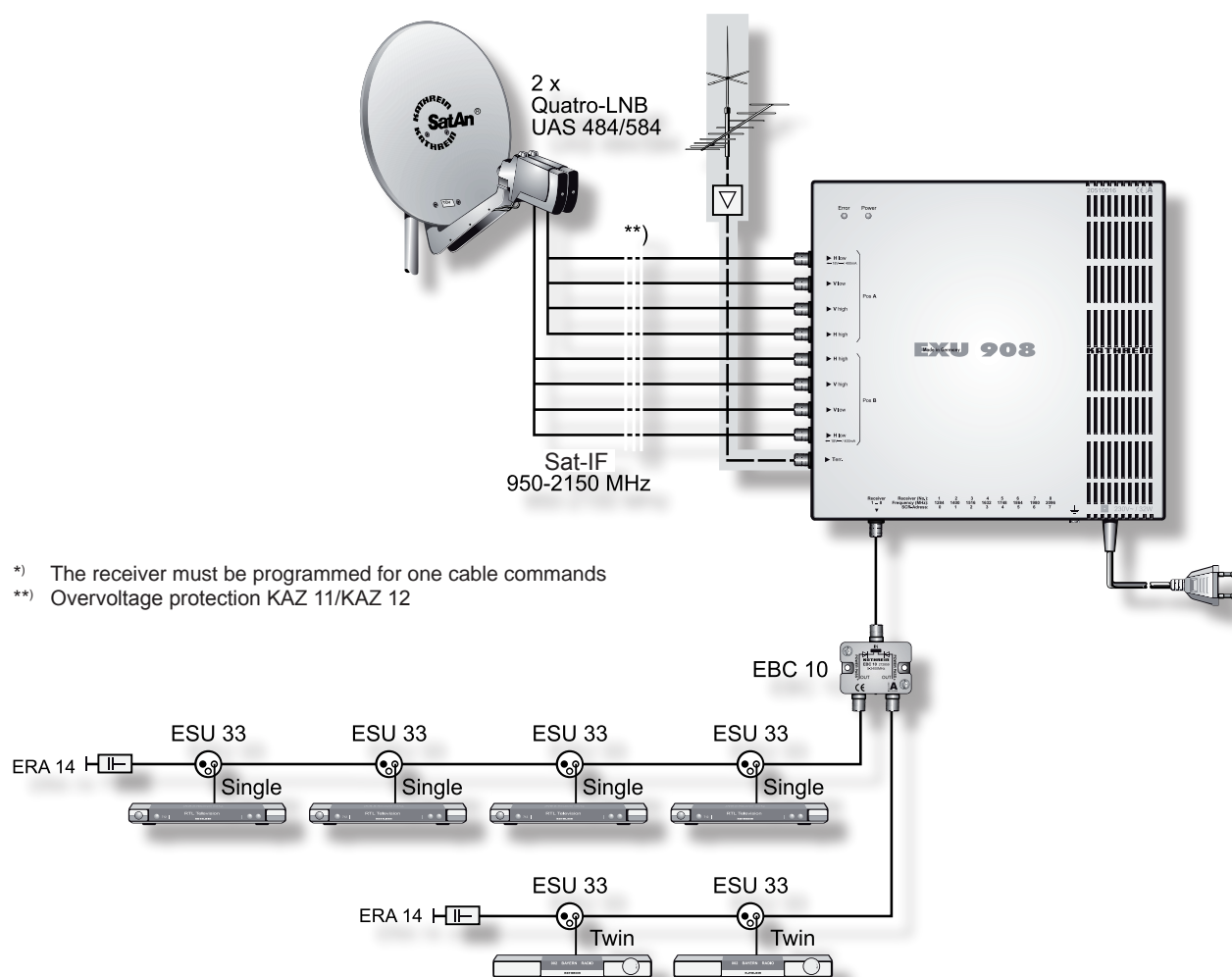
2 x
Quatro-LNB
UAS 484/584

**)

Sat-IF
950-2150 MHz

EXU 908

Error   Power

H low
V low
V high
H high   Pos A

H high
V high
V low
H low   Pos B

Terr.

*)   The receiver must be programmed for one cable commands
**)   Overvoltage protection KAZ 11/KAZ 12

EBC 10

| ERA 14 | ESU 33 | ESU 33 | ESU 33 | ESU 33 |
| | Single | Single | Single | Single |

| ERA 14 | ESU 33 | ESU 33 |
| | Twin | Twin |

UAS 481

WFS 23

ESU 33

ESU 33

ESU 33

ESU 33

ERA 14

UAS 481

WFS 23

EBC 10

4 x ESU 33

ERA 14   ERA 14

*) The receiver must be programmed for one cable commands
**) Overvoltage protection KAZ 11/KAZ 12

UAS 481

WFS 23

EBC 13

2 x ESU 33

2 x ESU 34

ERA 14

UAS 481

WFS 23

EBC 14

4 x ESU 34
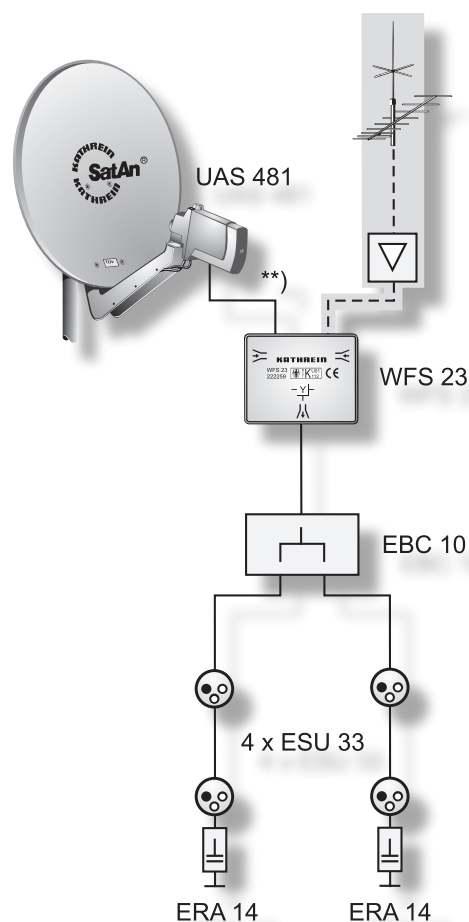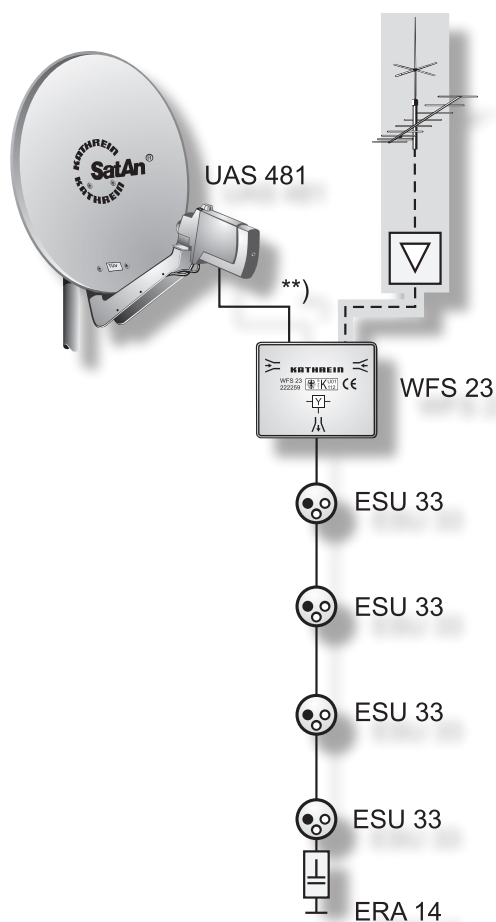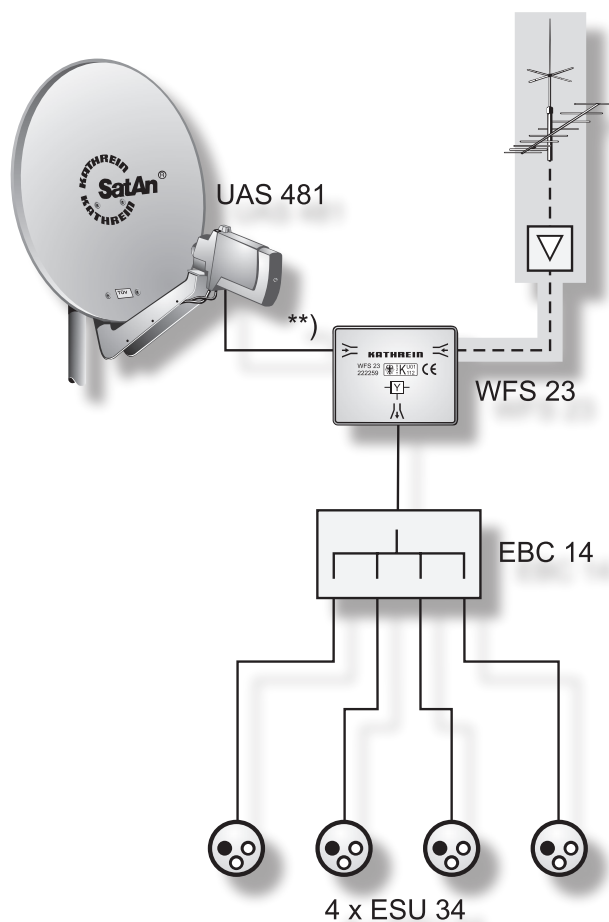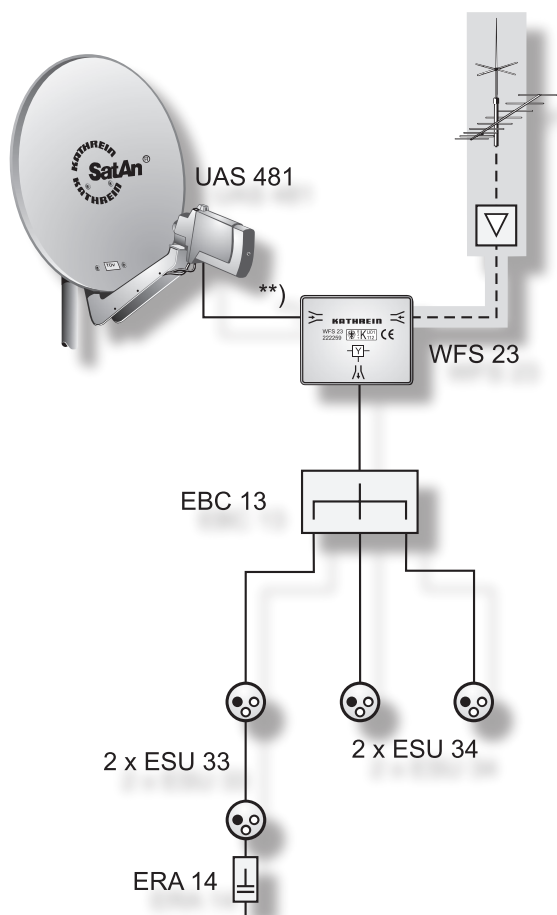
Connection examples for network functionality

DHCP (Receiver): OFF
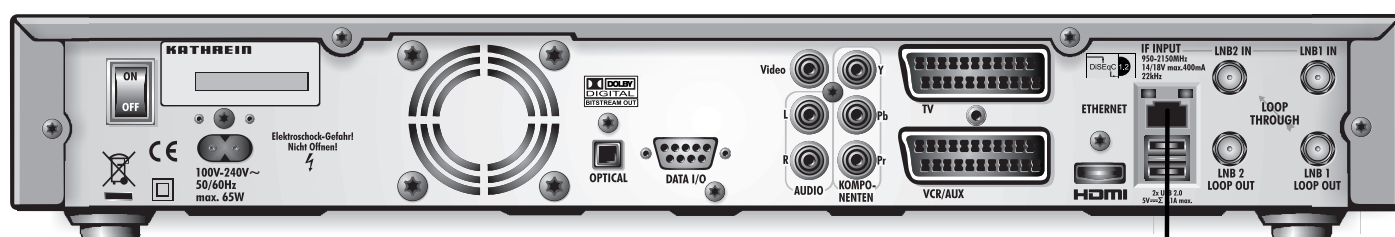
UFS 922

IP address:
192.168.0.11

Crossed network cable

IP address:
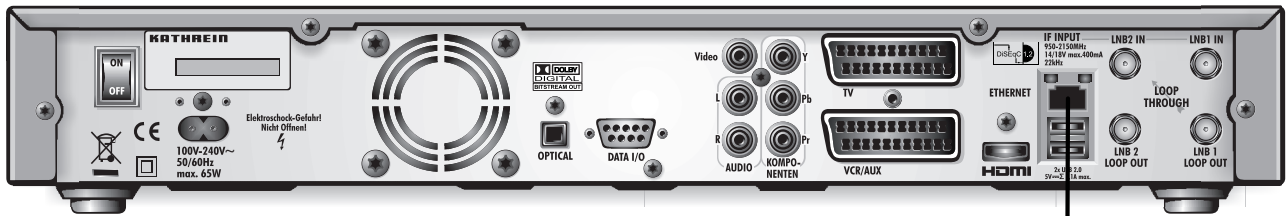192.168.0.10

PC/laptop

Technical appendix

DHCP (Receiver): OFF

UFS 922

TCP/IP address:
192.168.0.12

Network cable

Switch/HUB

Network cable

Network cable

PC/laptop

TCP/IP address:
192.168.0.10

PC/laptop

TCP/IP address:
192.168.0.11

DHCP (Receiver): OFF

TCP/IP address:
192.168.0.12

TCP/IP address:
192.168.0.13

UFS 922

UFS 922

Network cable

DHCP server, router
(e.g. Fritzbox)

Network cable

Network cable

Network cable

PC/laptop

PC/laptop

TCP/IP address:
192.168.0.10
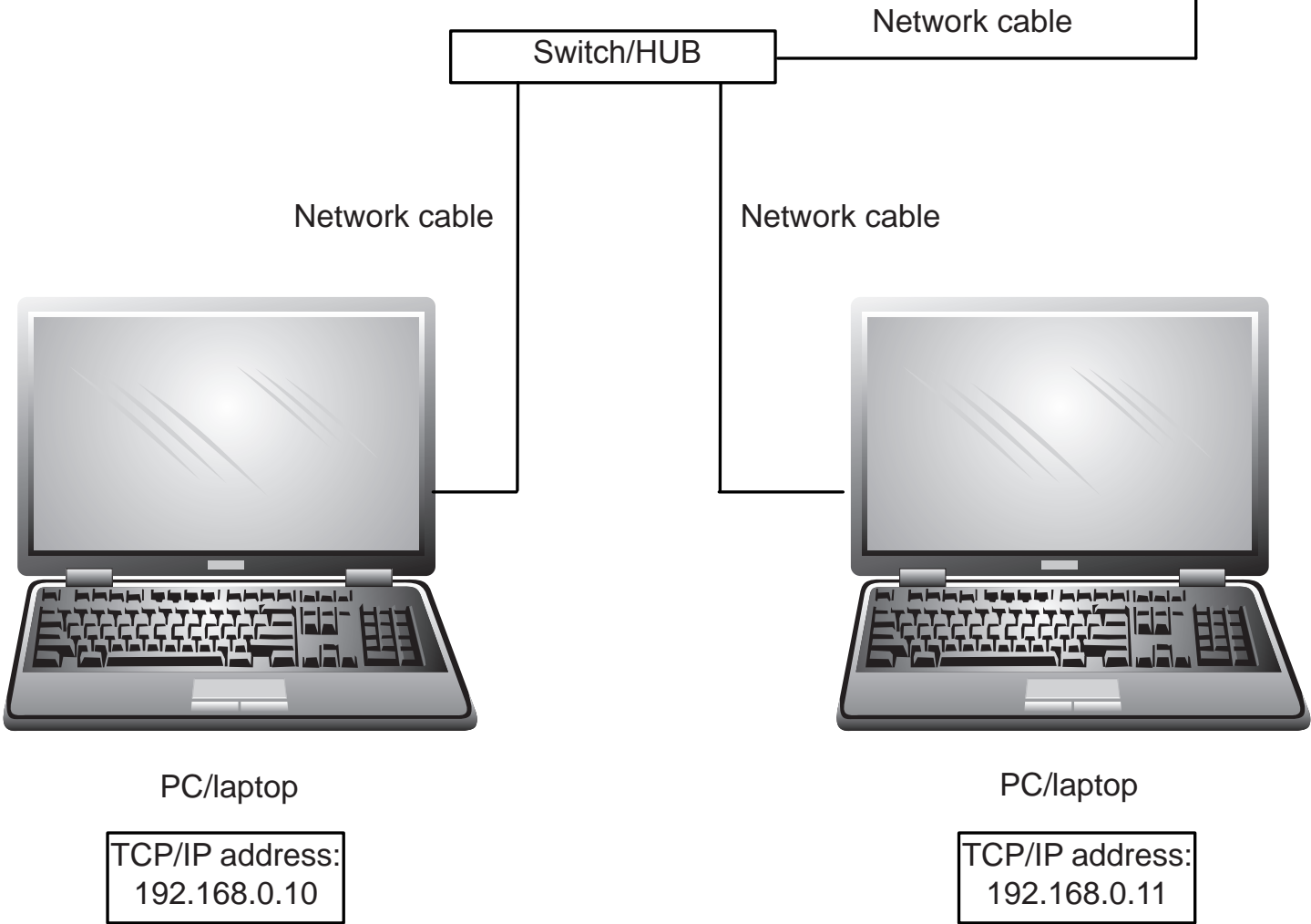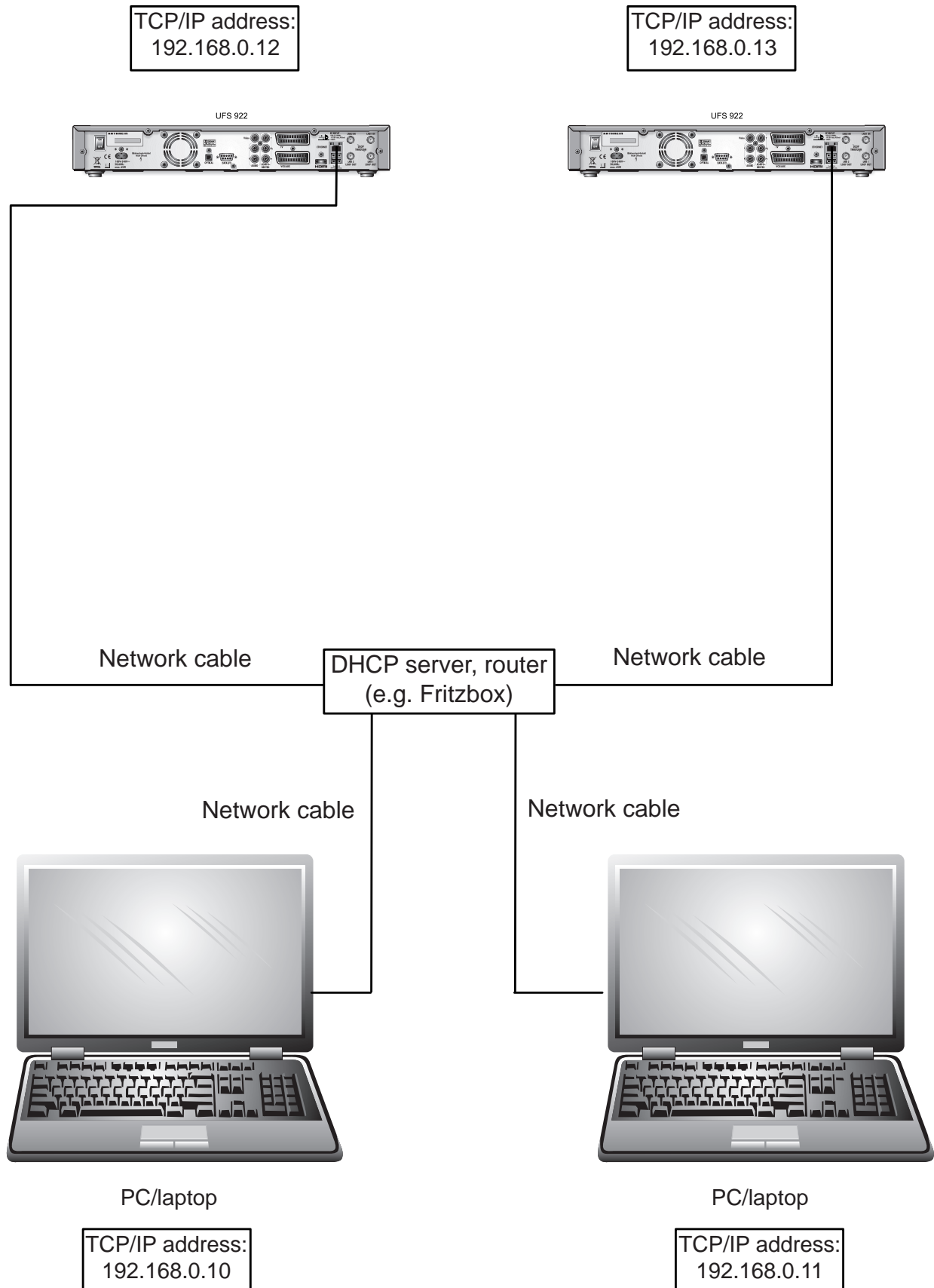
TCP/IP address:
192.168.0.11
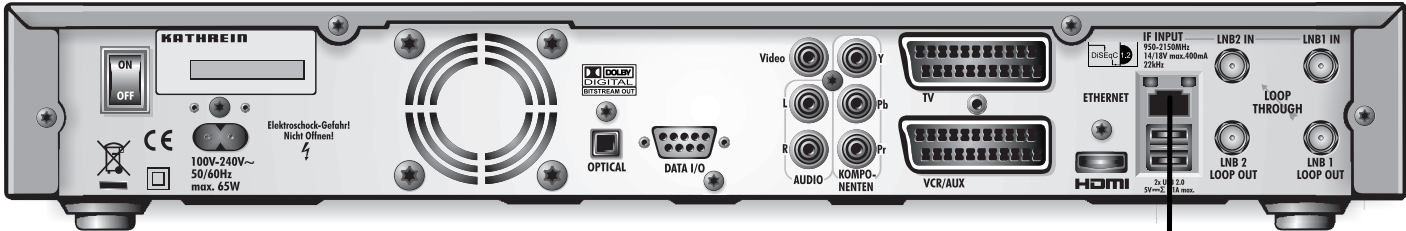
DHCP (Receiver): ON

UFS 922

TCP/IP address: automatic

DHCP server, router (e.g. Fritzbox)

Network cable

Radio link

PC/laptop

Contents

Comprehensive index

Comprehensive index

AC 3
Output for Dolby Digital signal

ASTRA
SES (Société Européene des Satellites) satellite system. Analogue and digital transponders in the frequency range 10.7-12.75 GHz.

AV programme pos.
Preferred programme slot on TV set for external connections such as Scart and HDMI

CAM – Conditional Access Module
Decryption decoder, which uses a smart card to decrypt the encrypted radio and TV signals.

Channel package
The channel package for a digital transponder normally includes several TV and radio channels. Each channel package has a fixed assignment for the transponder transmission frequency, for polarization (horizontal or vertical), for the symbol rate and for the Viterbi rate or error rate.

CI - Common Interface
Internationally standardised interface for CA modules

Conditional Access (CA) system
Controls user access to services and programmes which are encrypted for reasons of copyright or for commercial reasons.

Data rate
Data bits transmitted per second. Is expressed in kbit/s or Mbit/s. The higher the data rate the better the quality of the transmitted signal.

Data reduction
Compression of video and audio signals. Redundant information is discarded.

DiSEqC™
DiSEqC™ (Digital Satellite Equipment Control) is a communication system between a satellite receiver (master) and the peripheral satellite components (slaves), such as LNBs, multi-switches, rotating antenna systems. It is a single master/multi-slave system, i.e. there is only ever one master in the satellite system. All activities start from the master.

DiSEqC™ components
If DiSEqC™ switching matrices are cascaded, the master receiver must transmit the DiSEqC™ signal several times, so that all DiSEqC™ multi-switches in the cascade receive their commands.
These days, DiSEqC™ components (slaves) must be downward compatible, i.e. respond to the analogue switching criteria from receivers that are only equipped with H/V and 22 kHz control signals.
A DiSEqC™ switching matrix will work with analogue switching criteria until the DiSEqC™ command from the master is received. All analogue switching criteria are then ignored.

Dolby Digital 5.1
Dolby Digital is a sound transmission that allows digital surround sound to be output on a home cinema system.

DVB - Digital Video Broadcasting
DVB-S refers to the transmission method (S = satellite, C = cable, T = terrestrial).

DVB-S2
An enhanced DVB-S signal for HDTV with better quality.

Eb/No ratio
The Eb/No ratio is a measure of the signal to noise ratio of a digital signal. The value is not identical to the C/N value familiar from analogue reception technology. At Eb/No values below 5 dB no reception is normally possible.

EUTELSAT
European Satellite operator, based in Paris. Many orbit positions and European customers. Transponders in the frequency range 10.7-12.75 GHz.

FEC
FEC is the abbreviation for Forward Error Correction. A technique for reducing the error rate of data transmission. Additional bits are inserted into the data stream, so that error-correction algorithms can be used on reception. The FEC error rate corresponds to the Viterbi rate.

HD – Ready
This is a label created by the EICTA (European Information, Communications and Consumer Electronics Industry Technology Association) for equipment that is capable of reproducing HDTV.

HDCP – High-bandwidth Digital Content Protection
Encryption system which protects the HDMI and DVI interfaces for secure transmission of video and audio data. HDCP should be used in Europe for HDTV standard transmissions.

Brief Technical Glossary

HDMI – High Definition Multimedia Interface
Digital interface for digital video and audio data transmission (preferred for HDTV).

HDTV – High Definition Television
High resolution television with a resolution up to 5 times higher or finer than PAL or NTSC. However, there is no compatibility, as the transmission process DVB-S2 and the compression technique MPEG4 are used for broadcasting.
The principal features of HDTV are the larger picture format (16:9), the doubled number of scanning lines (increased from the currently 625 to 1,250) and digital sound quality.

High band
Satellite frequency range between 11.7 GHz and 12.75 GHz.

H.264
Another designation for MPEG-4.

LNB - Low Noise Block Converter
Converts the satellite downlink frequencies into the Sat-IF for the first satellite.

Low band
Satellite frequency range between 10.7 GHz and 11.7 GHz.

MPEG-2
MPEG is the abbreviation for Moving Picture Experts Group, a working group that formulates internationally applicable standards for the digital compression of video and audio. MPEG-2 has become established as the standard for compression of digital TV signals. MPEG-2 works up to a data rate of 100 Mbit/s.

MPEG-4
A further development of MPEG-2 with even higher data compression, intended for HDTV transmissions.

NID
The channel identification number is also referred to as the Network ID or NID.

OSD – On-Screen Display
Displays by the receiver on the TV screen (e.g. main menu)

PAL
Analogue TV standard

Pay TV
Television channels available on subscription (e.g. PREMIERE). Encrypted transmitters which can only be decrypted by using the appropriate smart card. As a rule these services are subscription-only.

PCMCIA
Standard for internal decoder interface for pay-TV

PID
The PID (Packet IDentification) number is an identification number for video signals and audio signals in the digital data stream of DVB-MPEG -2 signals. The receiver uses the PID number to create a unique assignment for the video and audio data transmission. The PCR PID is the identification number for the synchronization signal. The PID-PCR is normally identical to the video PID. For programmes broadcast in multiple languages, the audio PD can be entered manually to assign a different language to the TV programme. After the PID is entered, the digital receiver automatically selects the audio data identified by the PID number from the data stream and assigns it to the video signal.

PIN
Personal Identification Number. For this unit the PIN is a 4-digit numeric code which must be entered to unlock the unit to allow access to certain functions and channels.

QAM - Quadrature-Amplitude-Modulation
Digital modulation process with phase shift keying, which is used for transmissions in cable networks.

QPSK - Quadrature Phase Shift Keying
Digital modulation process that is used for satellite transmission (8PSK is also used in connection with HDTV).

Receivers
Satellite receiver

RGB
Video signal made up of three individual colour signals (red, green, blue)

SAT IF signal
Receiver input signal

Scart cable
21-pin connecting cable (e.g. receiver/TV)

Smart card
Card from Pay TV provider to decrypt its channels

Stand-by
Standby mode

Symbol Rate
The symbol rate describes the quantity of data that is transmitted per second. The symbol rate is measured in MSymbols/s and is equal to the number of symbols received per second.

Timer function
Clock function for pre-programmed switch on and off times

Timeshift function
Time shifted playback

Transponder
A transponder is a frequency converter which receives TV and radio signals broadcast from the earth, converts them and the rebroadcasts them back to the earth at a different frequency. A satellite has several transponders.

Analogue transponders transmit only one TV channel and possibly multiple radio channels on a single transmission frequency.

Digital transponders simultaneously transmit several TV and several radio programmes on a transmission frequency. If a programme provider is broadcasting several TV channels via a digital transponder, we refer to the provider's channel package. The terms "digital transponder" and "channel package" have the same meaning.

UPnP
Stands for "Universal Plug and Play". Further information is available from "www.upnp.org".

VCR/PVR connection
Connection for an external recorder (such as a video or DVD recorder)

Video-Bit-Rate
The video bit rate describes the quantity of data from the digitised video signal that is transmitted per second.

Viterbi rate
The Viterbi rate (code rate, error rate) characterises the error protection used by the programme provider. The DVB standard provides the following values: 1/2 - 2/3 - 3/4 - 5/6 - 7/8

Service

If, despite studying this operating manual, you still have questions about getting started with the unit or using it correctly, or if unexpected problems occur, please contact your specialist dealer. The Kathrein Customer Hotline is also at your disposal.

Phone: 0900/1122240 *

* (0.49 EUR per minute on Deutsche Telekom AG land lines, calls from mobile phones may cost more)

KATHREIN

Antennen · Electronic